# REPORT

# FIELD REPORT TO MAP POTENTIAL WATERS OF THE UNITED STATES FOR THE GREGORY CANYON LANDFILL PROJECT

Prepared for

Gregory Canyon, Ltd. 991-C-404 Lomas Santa Fe Drive Solana Beach, California 92075

URS Project No. 27654025

May 18, 2004

# **URS**

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# **SECTION 1 INTRODUCTION**

This report describes waters of the U.S. mapped by URS Corporation (URS) at the Gregory Canyon Landfill project site. The project site is located in northern San Diego County due south of State Route 76 (SR 76) at a location approximately 3.5 miles east of the intersection for SR 76 with Interstate 5 (I-5). The project location is shown in Figure 1. URS focused its efforts in the general vicinity of proposed project facilities, including the landfill, two borrow/stockpile areas, and a bridge crossing of the San Luis Rey River.

Methods used to delineate waters of the U.S. are described in Section 2.0 of this report. The results of mapping waters of the U.S. are described in Section 3.0. Literature cited is presented in Section 4.10. Tables and figures are presented in separate sections. Appendices A and B contain representative photos of the project area. Appendices C and D contain wetland data sheets prepared during site surveys. Large plates are attached at the end of this report.

**SECTION**TWO

**Methods** 

#### **SECTION 2 METHODS**

#### 2.1 DETERMINATION OF WATERS OF THE UNITED STATES

The project study area has the potential to contain waters of the U.S., including wetlands and other waters of the U.S. subject to jurisdiction pursuant to Section 404 of the Federal Clean Water Act to support future permitting through the U.S. Army Corps of Engineers (Corps) and other agencies. Waters of the U.S. were mapped based on the presence of an ordinary high water mark (OHWM) or the boundary of adjacent wetlands defining their limits as provided at 33 CFR 328.3 and 328.4:

#### Section 328.3 - Definitions.

For the purpose of this regulation these terms are defined as follows:

- a. The term "waters of the United States" means
  - 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
  - 2. All interstate waters including interstate wetlands;
  - 3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
    - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
    - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
    - iii. Which are used or could be used for industrial purpose by industries in interstate commerce;
  - 4. All impoundments of waters otherwise defined as waters of the United States under the definition;
  - 5. Tributaries of waters identified in paragraphs (a)(1)-(4) of this section;
  - 6. The territorial seas:
  - 7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a)(1)-(6) of this section.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 123.11(m) which also meet the criteria of this definition) are not waters of the United States.

- 8. Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with the EPA.
- b. The term "wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.
- c. The term "adjacent" means bordering, contiguous, or neighboring. Wetlands separated from other waters of the United States by man-made dikes or barriers, natural river berms, beach dunes and the like are "adjacent wetlands."
- d. The term "high tide line" means the line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.
- e. The term "ordinary high water mark" means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.
- f. The term "tidal waters" means those waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects.

#### Section 328.4 - Limits of jurisdiction.

- a. **Territorial Seas.** The limit of jurisdiction in the territorial seas is measured from the baseline in a seaward direction a distance of three nautical miles. (See 33 CFR 329.12)
- b. **Tidal Waters of the United States.** The landward limits of jurisdiction in tidal waters:
  - 1. Extends to the high tide line, or

- 2. When adjacent non-tidal waters of the United States are present, the jurisdiction extends to the limits identified in paragraph (c) of this section.
- c. Non-Tidal Waters of the United States. The limits of jurisdiction in non-tidal waters:
  - 1. In the absence of adjacent wetlands, the jurisdiction extends to the ordinary high water mark, or
  - 2. When adjacent wetlands are present, the jurisdiction extends beyond the ordinary high water mark to the limit of the adjacent wetlands.
  - 3. When the water of the United States consists only of wetlands the jurisdiction extends to the limit of the wetland.

Guidance from the Corps (2001), Final Summary Report: Guidelines for Jurisdictional Determinations for Waters of the United States in the Arid Southwest, was also used. Guidance of relevance to this delineation includes consideration that: "In dryland fluvial systems typical of the desert areas, the most common physical characteristics indicating the OHWM for a channel usually include, but are not limited to: a clear natural scour line impressed on the bank; recent bank erosion; destruction of native terrestrial vegetation; and the presence of litter and debris. For many small desert wash systems, the presence of continuous well-developed upland vegetation in the stream channel is a good indicator that it only conveys surface flow during extremely large storm events and, as a result, would not usually constitute a jurisdictional water of the United States."

Federal wetlands were mapped based on the presence of wetland hydrology, wetland vegetation, and hydric soils pursuant to guidance from the Federal Manual for Delineating Wetlands (Corps 1987). The project area includes both wetlands within the limits of an OHWM and adjacent wetlands that occur adjacent the limits of waters of the U.S. as defined above. As described in Section 3.0, Federal wetlands on the project site are limited the San Luis Rey River corridor.

#### 2.2 SURVEYS

All surveys were overseen by Bill Magdych, Ph.D. (Professional Wetland Scientist No. 195) of URS. Dr. Magdych participated in a site reconnaissance survey on March 11, 2004 with representatives from Gregory Canyon, Ltd. and Mr. David Barrows. There had been heavy local rains within a few weeks of this survey. Surveys to map waters of the U.S. were performed by URS on April 6 and 8, 2004. These latter mapping surveys were performed by Dr. Magdych, Jim Rocks (botanist), and Ellen Howard (biologist) of URS. Soil pits were excavated at various locations to determine the presence or absence of wetland hydrology and hydric soil conditions. GPS waypoints were collected at various locations, including the locations of soil pits for reference purposes. Differential GPS with sub-meter accuracy was not used. The published accuracy of the GPS units used is approximately 50 feet for non-WAAS enabled points, and approximately 10 feet for WAAS enabled points. The GPS unit used was an IPAQ-based system with a Fortuna Clip-on Bluetooth receiving unit that allowed display of aerial photographs on the display screen along with GPS positional information. These GPS points were used as collateral information in mapping wetland boundaries. Additional collateral information included color aerial photos from March 2002 at scales of 1 inch = 200 feet and 1 inch = 500 feet, and topographic contour

**SECTIONTWO** 

maps. Photos were taken at representative locations, generally at the GPS waypoints, to assist in boundary determinations and documentation of findings. Boundaries were mapped in the field and refined in the office based on comparison of the various collateral material.

# **SECTION 3 RESULTS**

#### 3.1 SAN LUIS REY RIVER

This study area includes the San Luis Rey River corridor at the vicinity of the proposed bridge crossing. This area was surveyed on April 8, 2004. Waypoints 1 through 34 from April 8 were taken at various locations in the river corridor and at the edge of the primary floodplain at key areas of interest. Refer to Figures 2 and 3, and Plates 1 and 2 for the locations of these waypoints. Representative photos taken at these locations are presented in Appendix A. Table 1 lists details for each location. The San Luis Rey River consists of a central channel with wetlands within the limits of the OHWM for the river. The north side of the river is bounded by a terrace that may be a historic fill within the floodplain or a protected natural terrace. The south side of the river consists of an OHWM, adjacent wetlands, and a series of upland terraces that are natural features. The boundaries of waters of the U.S., which are all wetlands in this case, are mapped on Figures 2 and 3, and Plates 1 and 2. Indicators of the OHWM and wetlands were distinct within this study area. These conditions are typical of this reach of the San Luis Rey River.

Waypoints 18-20 were taken along the edge of the San Luis Rey River at a high terrace on the south side of the river. This location is in the vicinity of the downslope end of Gregory Canyon adjacent the San Luis Rey River. The was no OHWM associated with the swale from Gregory Canyon at the limit of the southern OHWM to the San Luis Rey River. This location is an old terrace of the river that is dominated by older riparian trees (willows and cottonwood); however, the understory on the terrace supports upland species. There were no indicators of wetland hydrology or hydric soils on the terrace, which was 5 to 10 feet above the San Luis Rey River at its lowest elevation. The San Luis Rey River had a clear OHWM in this area. Therefore, there is no channel associated with Gregory Canyon in this area that is a waters of the U.S.

#### 3.2 GREGORY CANYON AND BORROW/STOCKPILE SITES

This study area included the greater area of Gregory Canyon and nearby areas that are designated for use as borrow/stockpile sites for the planned landfill. This study area included the lands within the project area that are south of the San Luis Rey River corridor. Portions of the landform with the potential to contain waters of the U.S., such as erosion features and rills, were closely examined. This area was surveyed in detail on April 6, 2004. Refer to Figure 2 and Plate 1 for the reference numbers (waypoint numbers) and locations of GPS waypoints taken at key survey locations on this date. Representative photos taken at these locations are presented in Appendix A. Table 2 lists details for each location. Datasheets completed at some reference points are presented in Appendix C. No waters of the U.S., including potential Federal wetlands, were identified within this study area.

Ten waypoints (numbers 1 through 10) were taken at key reference points within the main body of Gregory Canyon on April 6, 2004, beginning at the downslope end of the canyon and working up the canyon to its highest elevations. The canyon contains an approximate central broad swale, with a localized central swale within this broad area. Waypoint 1 is located north of the planned project facilities within the localized central swale. No OHWM is present at this location. This area has older trees and shrubs consisting of cottonwood (Populus fremonti) and mulefat (Baccharis salicifolia); however, the understory is dominated by upland plants. This site did not exhibit indicators of wetland hydrology or

hydric soils. Therefore, waypoint 1 is not waters of the U.S., including wetlands. Similar conditions were observed at waypoints 2 and 3, and these areas are also not wetlands or other waters of the U.S.

Waypoints 4 (a and b), 5, 6, and 7 were similar in nature with respect to the local landform and vegetation, and are within the area of potential effect for the landfill. No OHWM was present and the base and sides of the localized swale was covered with upland non-native grasses. Photos 22 through 24 taken at Waypoint 6 on April 6 clearly show the lack of evidence of water flow and the rocks shown do not show any evidence of flow such as mud marks or polishing. A few coast live oaks (Quercus agrifolia), which are upland trees, and a few isolated shrubs of mulefat and buckwheat (Eriogonum facsiculatum) were present along the swale. There were no indicators of wetland hydrology or hydric soils. There was no evidence of recent flows, even though heavy rains had occurred within a few weeks prior to the survey date, and no evidence of near historic flows that would create a potential OHWM. Therefore, waypoints 4 through 7 are not waters of the U.S.

Waypoint 8 was further up the canyon, in an area of steeper terrain. There was no OHWM present within this area even though it was a localized area of much deeper relative landform incision compared to the areas downstream. The area supports upland coast live oaks, and other upland shrub and herbaceous species. There were no indicators of wetland hydrology or hydric soils. Waypoint 9 is located at a side erosion rill to the main swale. This area also lacked an OHWM or wetland indicators. Waypoint 10 was located near the head of the canyon, and also lacked an OHWM or wetland indicators. Therefore, waters of the U.S. are not present within Gregory Canyon.

Waypoints 11 through 17 were located in a localized swale to the west of the main canyon within an a proposed borrow/stockpile site for the landfill. These areas did not have OHWMs and were dominated by upland scrub species (mixed coastal sage scrub and chaparral species), and both upland non-native and native grasses. Wetland indicators for vegetation, hydrology, and soils were not present at these locations. Therfore, this area does not contain waters of the U.S.

# **SECTION 4 LITERATURE CITED**

Corps (Environmental Laboratory), 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

Corps, 2001. Final Summary Report: Guidelines for Jurisdictional Determinations for Waters of the United States in the Arid Southwest. U.S. Army Corps Engineers, South Pacific Division.



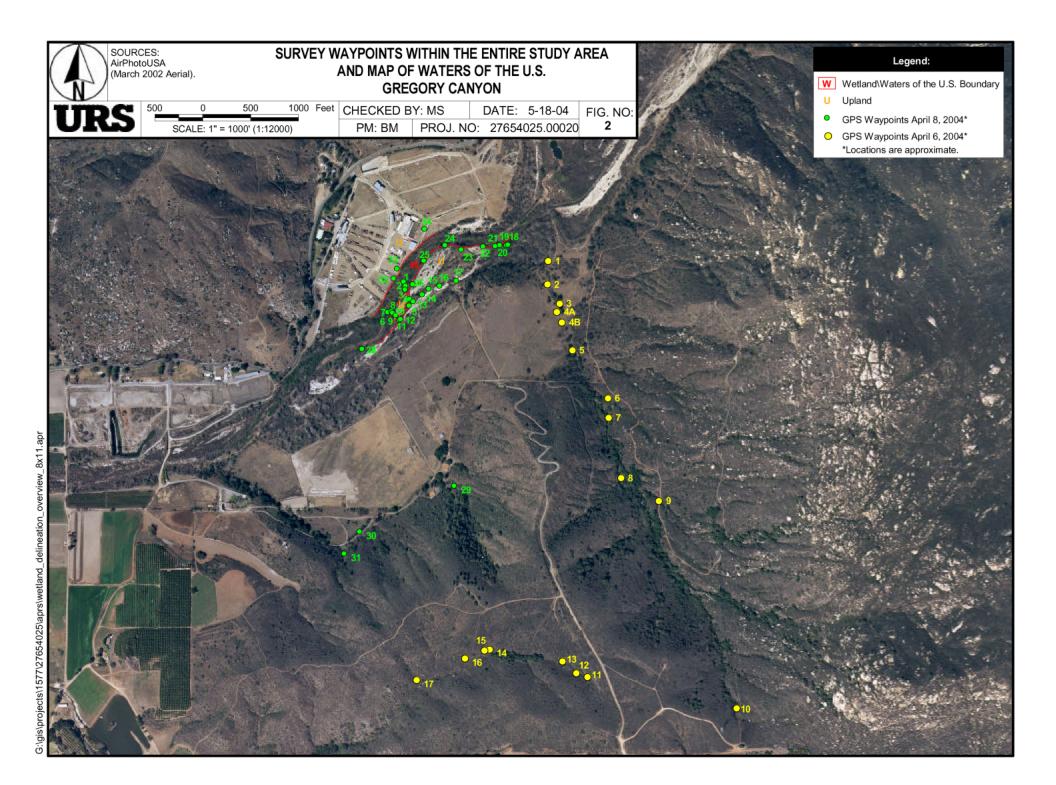
Table 1 Survey Waypoints from April 8, 2004 for the Gregory Canyon Landfill Project

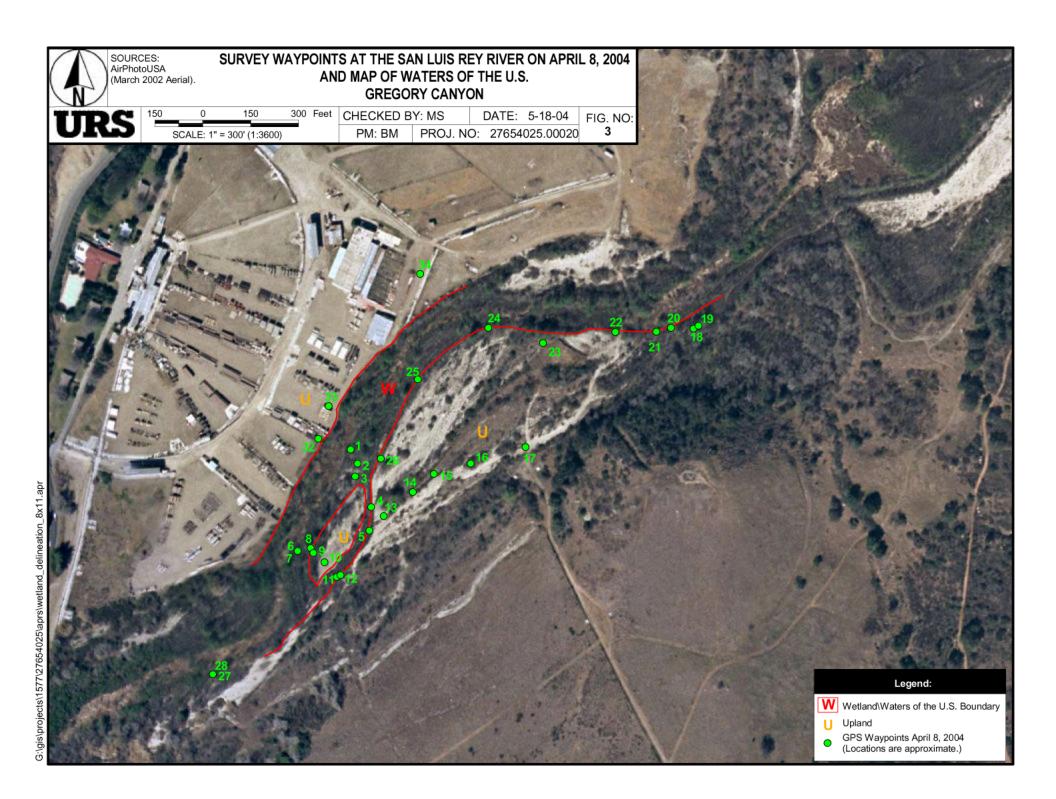
Longitude	Latitude	Waypoint	Soil Pit?	Comment
-117.115305	33.346426	1	Υ	Wetland
-117.115235	33.346306	2	Υ	Non-wetland within overall wetland, area
-117.113233	33.340300	۷	'	included within wetland boundaries
-117.115256	33.346196	3	Υ	Wetland
-117.115093	33.345930	4	Υ	Not wetland, at boundary
-117.115111	33.345731	5		Not wetland, at boundary
-117.115846	33.345554	6		Wetland
-117.115846	33.345554	7		Wetland
-117.115713	33.345578	8	Υ	Wetland
-117.115686	33.345536	9	Υ	Not wetland, at boundary
-117.115571	33.345458	10	Υ	Upland
-117.115448	33.345331	11	Υ	Wetland at boundary
-117.115408	33.345348	12		Upland
-117.114966	33.345855	13		Upland
-117.114668	33.346061	14		Upland
-117.114450	33.346218	15		Upland
-117.114076	33.346305	16		Upland
-117.113513	33.346451	17		Upland
-117.111796	33.347468	18	Υ	Upland
-117.111743	33.347493	19		Upland
-117.112023	33.347473	20		Upland
-117.112176	33.347441	21		Upland
-117.112595	33.347437	22		Upland
-117.113336	33.347343	23		Upland
-117.113895	33.347473	24		Upland
-117.114615	33.347028	25		Upland
-117.114995	33.346350	26		Upland
-117.116713	33.344495	27	Υ	Upland
-117.116713	33.344495	28		Upland
-117.113568	33.340578	29		Upland
-117.116795	33.339260	30		Upland
-117.117316	33.338631	31		Upland
-117.115636	33.346518	32		Upland
-117.115530	33.346801	33		Upland
-117.114595	33.347938	34		Upland

Table 2 Survey Waypoints from April 6, 2004 for the Gregory Canyon Landfill Project

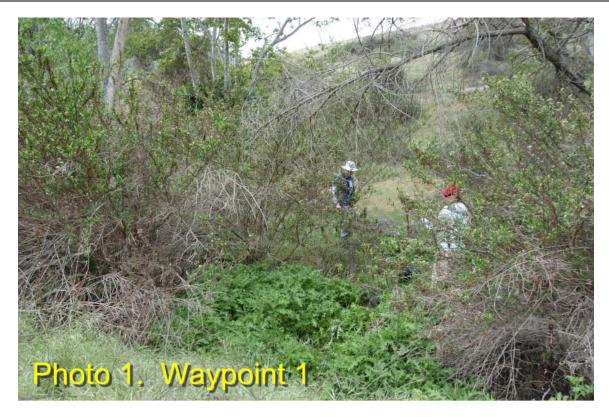
Longitude	Latitude	Waypoint	Soil Pit?	Comment
-117.110366	33.347020	1	Υ	No OHWM; No wetland
-117.110388	33.346350	2	Υ	No OHWM; No wetland
-117.109973	33.345805	3	Υ	No OHWM; No wetland
-117.110065	33.345565	4a	Υ	No OHWM; No wetland
-117.109891	33.345267	4b	Υ	No OHWM; No wetland
-117.109535	33.344468	5	Υ	No OHWM; No wetland
-117.108320	33.343096	6	Υ	No OHWM; No wetland
-117.108291	33.342535	7		No OHWM; No wetland
-117.107870	33.340808	8	Υ	No OHWM; No wetland
-117.106573	33.340151	9		No OHWM; No wetland
-117.103916	33.334215	10		No OHWM; No wetland
-117.109003	33.335110	11		No OHWM; No wetland
-117.109385	33.335214	12	Υ	No OHWM; No wetland
-117.109853	33.335555	13		No OHWM; No wetland
-117.112343	33.335895	14		No OHWM; No wetland
-117.112523	33.335861	15		No OHWM; No wetland
-117.113188	33.335631	16		No OHWM; No wetland
-117.114833	33.335020	17		No OHWM; No wetland







# **APPENDIX**A







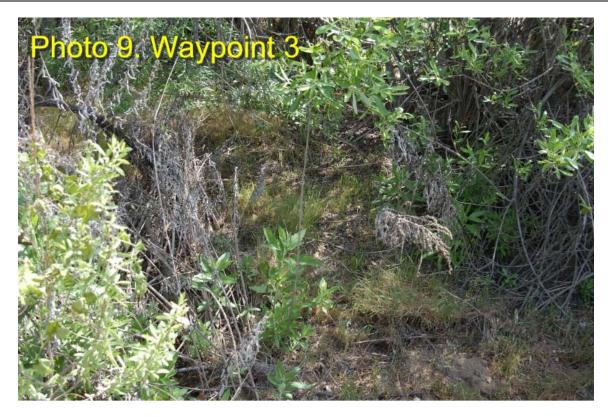




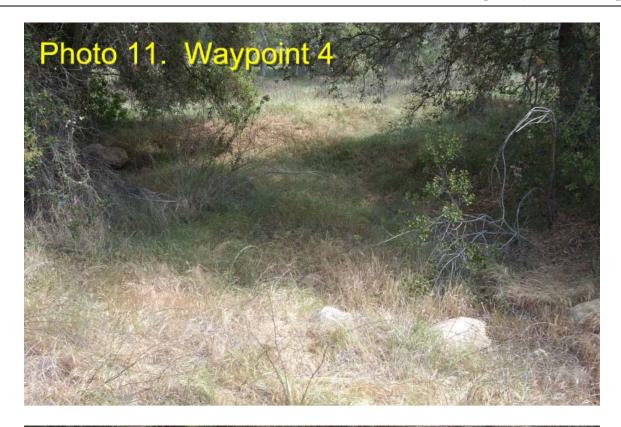








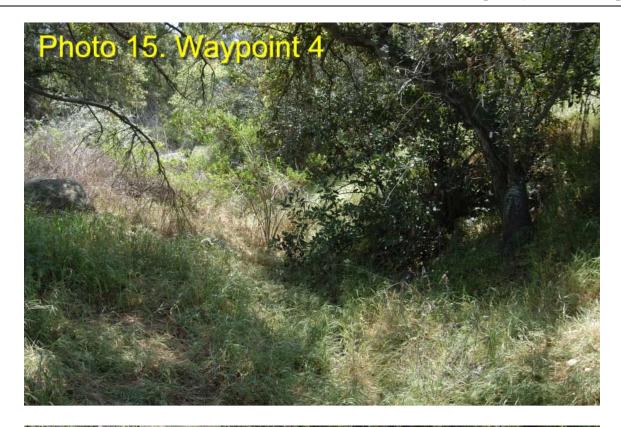










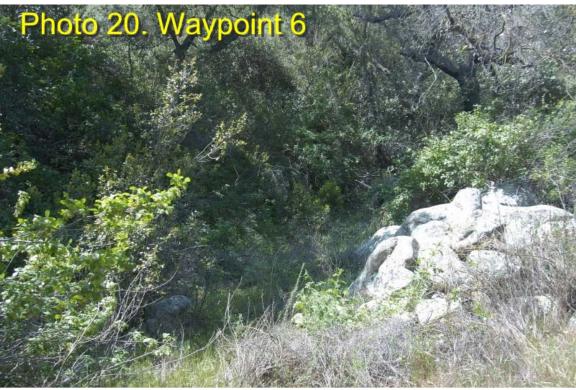


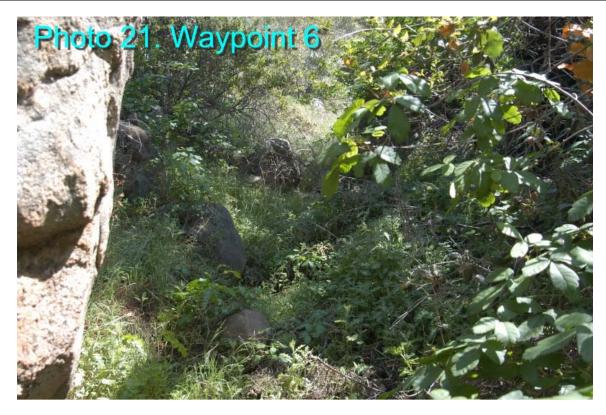


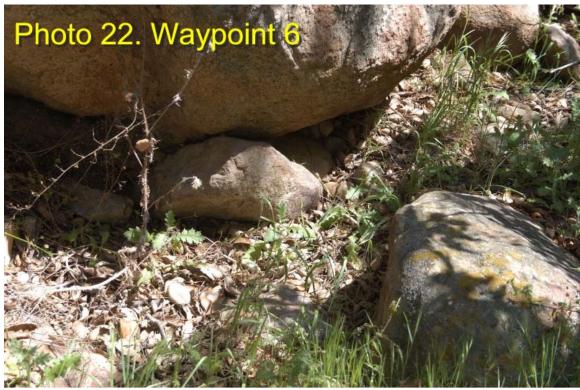










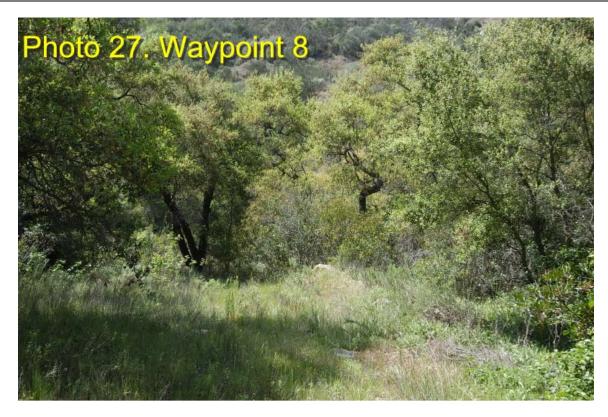






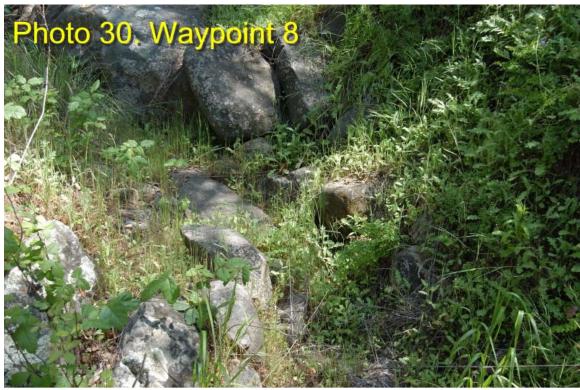


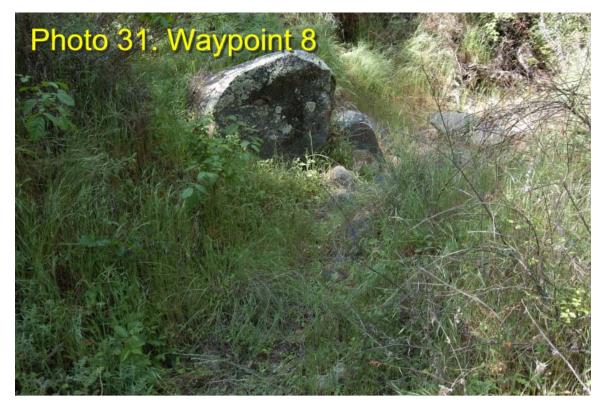




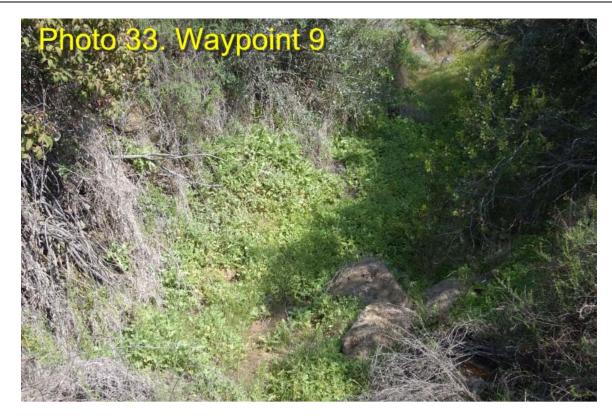


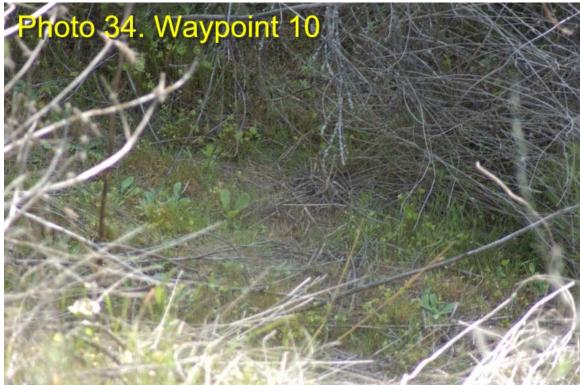






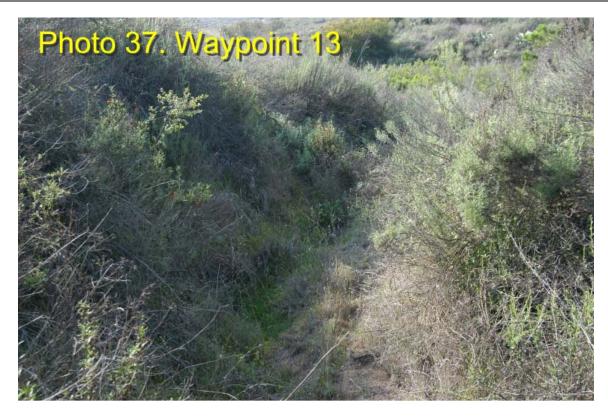


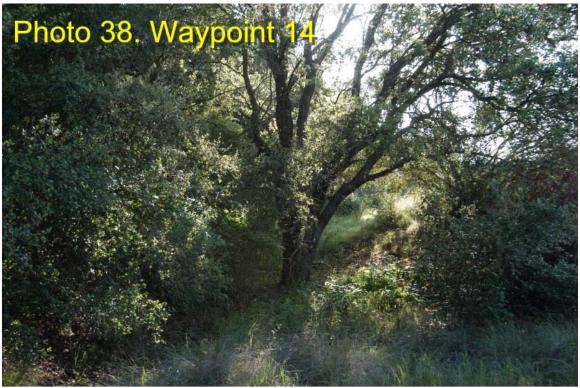


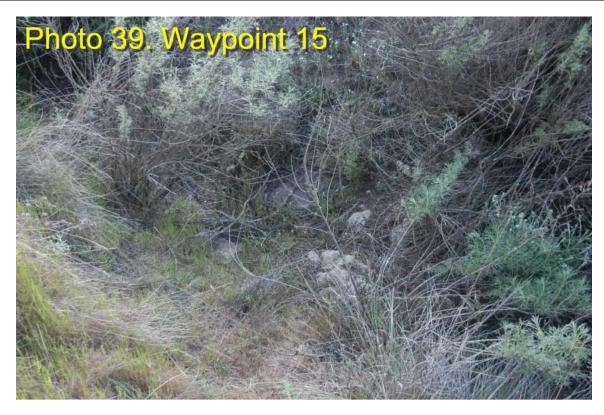


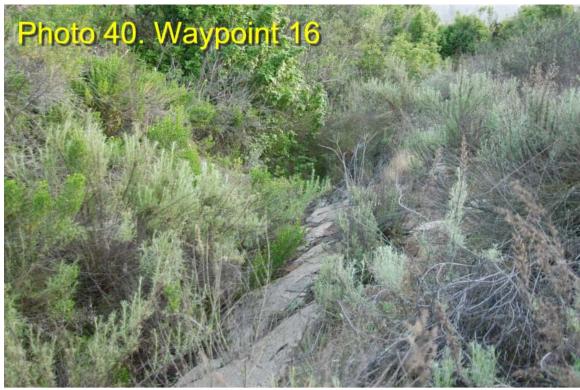


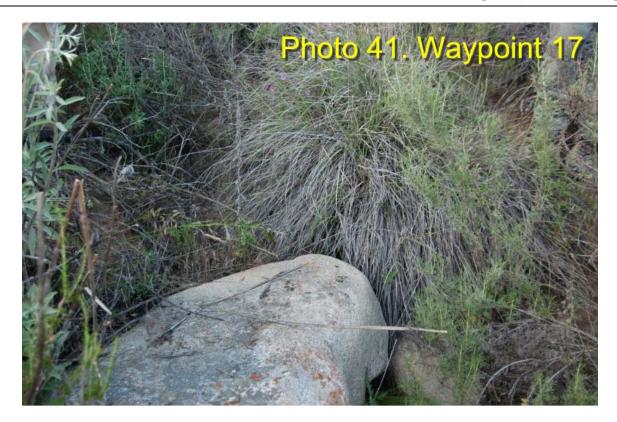






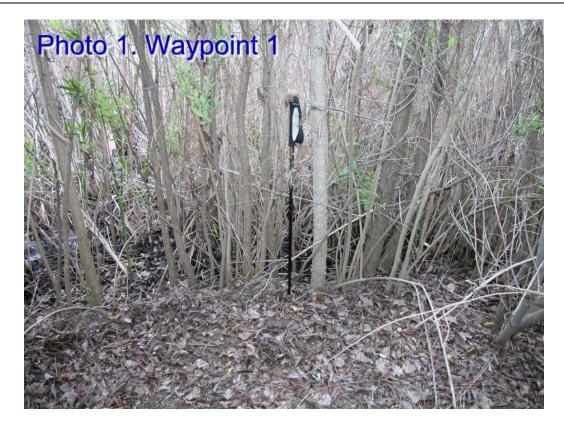






### Representative Photos from the April 8, 2004 Survey

### **APPENDIX**B















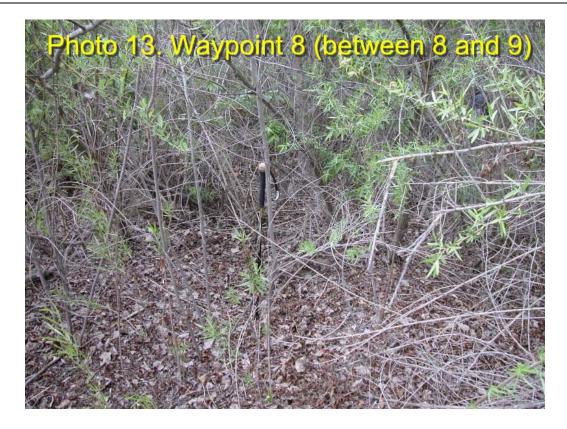












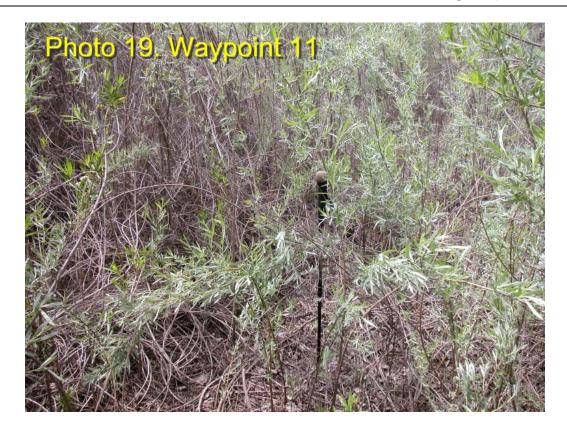




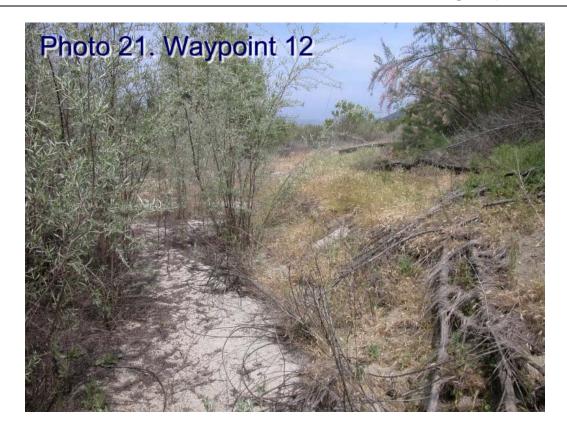








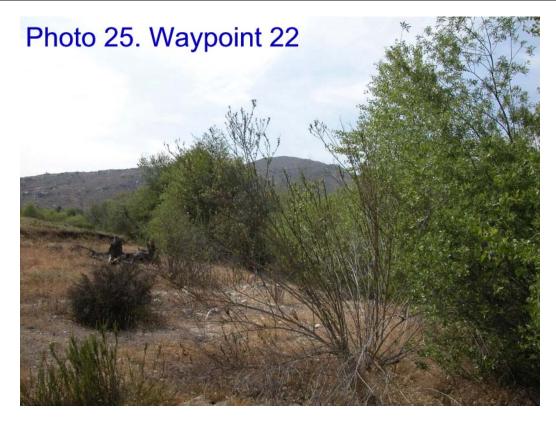


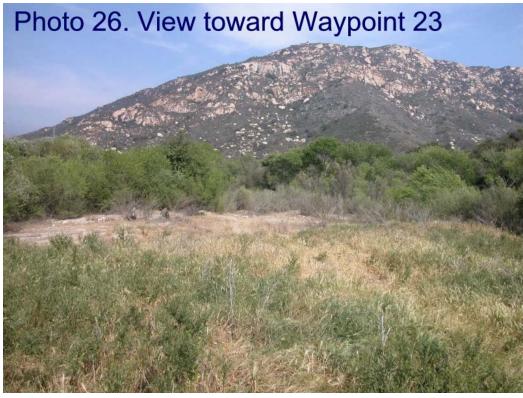


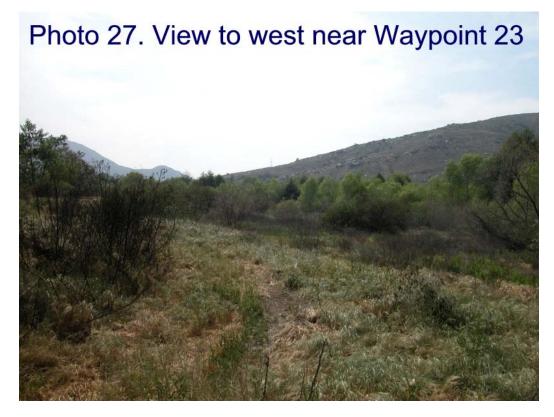


















DATA FOR	M												
		RUIT	INE WE	TI AND	DETE	⊥ PM INΔ7	LIUN LIUN						
				Wetlands D			ION						
						Itiaira.,							
Project/Site:		Gregory Ca	anyon Landfi	ill			Date:	4/6/2	2004				
Applicant/Owne	er:						County:	San Diego					
Investigator:		Bill Magdyc	ch, Jim Rock	s, Ellen Hov	ward		State:	CA					
Do Normal Circ	cumstances	exist on the	site?		<b>✓</b> Yes	☐ No	Communit	y ID:					
Is the site signi	ificantly dist	urbed (Atypic	cal Situation	)?	Yes	<b>☑</b> No	Transect II	D:					
Is the area a po	otential Prob	lem Area?	(If needed, explain	on reverse)	Yes	<b>☑</b> No	Plot ID:	Waypoint 1					
VEGETATION		<u></u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	1					
	nt Plant Spe		Stratum	Indicator		nant Plant S	pecies	Stratum	Indicator				
1	Baccharis		S	FACW	9			<del> </del>					
2	Populus fre		T	FACW	10			<u> </u>					
3	Silybum m	ıarianum	S	NI	11			<u> </u>	<u> </u>				
4			<u> </u> '	<u> </u>	12			<u> </u>					
5			<del> </del> '	<del>                                     </del>	13			<del> </del>					
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8			22: 54		16	=: 0\ T	220/ 0 -	S = 70% douglasiana, Anthriscus caucalis					
Tromance.	illig at long.	upiana g	3 uio p. 32	000000000000000000000000000000000000000	II Onwood	muo diana	THOMAS IS S	dorara,	uo outo				
HYDROLOG	<b>3Y</b>												
						WETLA	ND HYDRO	LOGY INDI	CATORS				
	Recorded	Data (Desc	ripe in Rem	ıarks)	Primar	y Indicators	s:						
		Stream, La	ake, or Tide	Gauge		Inundated							
		Aerial Pho	tographs			Saturated	in Upper 12	2 inches					
		Other				Water Ma							
						Drift Lines							
	No Record	ded Data Av	ailable			Sediment	Deposits						
	FIELD C	DBSERVATI	IONS			Drainage [	Patterns in	Wetlands					
						dary Indica	tors (2 or m	nore Require	ed):				
Depth of Surf	ace Water		none	(in)			•	nels in Uppe	,				
						Water-Sta	ained Leaves	s					
Depth to Free	e Water in I	Pit	none	(in)		Local Soil	Survey Dat	ta					
		ı		'	~	FAC-Neut	ral Test						
Depth to Sati	urated Soil		none	(in)	,	Other (Ex	plain in Ren	narks)					
Remarks: no				, ,		`S.							
	.,	-	- J.	,	-								



DATA FORM	Л							
	ROUTIN	L JE WETI Δ	ND DETER	RMINATION				
			ds Delineations I					
SOILS								
Map Unit Name	e (Series and Ph	ase):		Drainage Class:				
Taxonomy (Sub	ogroup):		Field Observation	ns Confirm Mapped T	ype? Yes	☐ No		
		PRC	FILE DESCRIP	FILE DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,			
14 in.	TIONZON	10YR 4/4	none	none	Sandy Loam	Cto.		
14 111.		1011(4/4	none	none	Canay Loan			
		HYDR	RIC SOIL INDICA	TORS	•			
	Histosol			Concretions				
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils		
	Sulfidic Odor			Organic Streaking in	Sandy Soils			
	Aquic Moisture r	egime		Listed on Local Hydr	ic Soils List			
	Reducing Condi	tions		Listed on National H	ydric Soils List			
	Gleyed or Low-C	hroma Colors		Other (Explain in Rer	narks)			
Remarks:								
WETLAND I	DETERMINAT	ION						
Hydrophytic Veg	etation Present?	<b>✓</b> Yes	□ No					
Wetland Hydrolo	gy Present?	☐ Yes	<b>☑</b> No	ls this Sampling	Point Within a We	etland?		
Hydric Soils Pre	sent?	Yes	<b>☑</b> No	☐ Yes	<b>☑</b> No			
Remarks:								

<b>DATA FOR</b>	M								
		POLITI	NE WE	TLAND	DETE	⊥ ⊃MINAT	LION I		<u></u>
				Wetlands D			ION		
Project/Site:		Gregory Ca	ınyon Landfi	Ш			Date:	4/6/2	2004
Applicant/Owne	er:						County:	San Diego	
Investigator:		Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA	
Do Normal Circ	cumstances	exist on the	site?		<b>✓</b> Yes	☐ No	Communi	ty ID:	
Is the site signi	ificantly dist	urbed (Atypic	al Situation	)?	Yes	<b>☑</b> No	Transect I	ID:	
Is the area a po					Yes	<b>☑</b> No	Plot ID:	Waypoint 2	
VEGETATION	ON								
Dominar	nt Plant Spe	ecies	Stratum	Indicator	Domin	ant Plant S	Species	Stratum	Indicator
1	Baccharis	salicifolia	Т	FACW	9				
2	Populus fre	emontii	Т	FACW	10				<u> </u>
3	Bromus dia	andrus	Н	NI	11				L
4	Salix lasio	lepis	Т	FACW	12				L
5	Sambucus	s mexicana	Т	FAC	13				L
6				<u> </u>	14				L
7			<u> </u>	<u> </u>	15				<u> </u>
8					16				
HYDROLOG	<u>SY</u>				<u> </u>				
						WETLAI	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Descr	•	,	Primar	y Indicators	3:		
			ake, or Tide	Gauge		Inundated			
		Aerial Phot	tographs				in Upper 1	2 inches	
		Other				Water Ma			
						Drift Lines			
	No Record	ded Data Ava	ailable	<u> </u> !		Sediment	· ·		
	FIELD O	BSERVATI	ONS			Drainage I	Patterns in	Wetlands	
				(in)		dary Indicat	tors (2 or m	nore Require	:d):
Depth of Surf	ace Water		none	(in)		Oxidized I	Root Chanr	nels in Uppe	r 12 inches
				<u> </u>		Water-Sta	ined Leave	:S	
Depth to Free	e Water in F	Pit	none	(in)		Local Soil		ta	
			l	<u></u>	~	FAC-Neut	ral Test		
Depth to Sat	urated Soil		none	(in)		Other (Exp	plain in Rei	marks)	
Remarks: No	indicators -	no OHWM	l.						

DATA FORM	Л								
	POLITIA	IE WETLA	ND DETER						
			ds Delineations N	MINATION Manual)					
SOILS	<u> </u>								
	e (Series and Ph	<del></del> ase):		Drainage Class:					
Taxonomy (Sub	·	,	Field Observatio	Field Observations Confirm Mapped Type?					
, ,		PRC	FILE DESCRIP		21				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,				
14 in.		10YR 4/4	none	none	Sandy Loam				
	1								
	†								
	<del> </del>								
	1	<u>l</u> HYDF	I RIC SOIL INDICA	<u>I</u> TORS					
П	Histosol			Concretions					
	Histic Epipedon			High Organic Content in Surface Layer in S					
<u></u> -	Sulfidic Odor			Organic Streaking in	alluy Solis				
		ima							
	Aquic Moisture re			Listed on Local Hydri					
	Reducing Condi			Listed on National Hy					
	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)				
Remarks: No I	lyanc soils.								
METI AND									
	<b>DETERMINAT</b> etation Present?	Ves	□ No						
				la thia Camplina	Doint Within a Wa	tland?			
Wetland Hydrold		☐ Yes	✓ No	Is this Sampling Point Within a Wetland					
Hydric Soils Present? Yes  Remarks: Tree layer is dominated by old hydro			V No	Yes Yes	No h is upland				
			p.,, 100.	, 5					

<b>DATA FOR</b>	М								
		POLITI	NE WE	TLAND	DETE	DM INIA:	TION		
				Wetlands D			IION		
			(1967 COE	vveuanus D	enneauons	wanuar)			
Project/Site:		Gregory Ca	nyon Landfi	II			Date:	4/6/2	2004
Applicant/Owne	er:	_ <u> </u>					County:	San Diego	
Investigator:		Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA	
Do Normal Circ	cumstances	exist on the	site?		<b>✓</b> Yes	☐ No	Communi	ty ID:	
Is the site signi	ficantly dist	urbed (Atypic	al Situation	)?	Yes	<b>₩</b> No	Transect	-	
Is the area a po					Yes	<b>☑</b> No	Plot ID:	Waypoint 3	
-								3,	
VEGETATION	ON								
Dominar	nt Plant Spe	ecies	Stratum	Indicator	Domir	nant Plant	Species	Stratum	Indicator
1	Salix lasio	lepis	Т	FACW	9				
2	Populus fr	emontii	T	FACW	10				
3	Salix good	ingii	Т	OBL	11				
4	Artemisia	douglasiana	Н	FACW	12				
5	Bromus di	andrus	Н	NI	13				
6	Agrostis e	xarata	Н	FACW	14				
7	Marah mad	crocarpus	Н	NI	15				
8					16				
HYDROLOG	3Y								
monocot						WETLA	ND HYDRO	DLOGY INDI	CATORS
	Recorded	Data (Desci	l rine in Rem	larks)	Primar	⊥ y Indicator	·S.		
			ake, or Tide	-		Inundated			
		Aerial Phot					in Upper 1	2 inches	
		Other				Water Ma			
						Drift Lines			
	No Record	ed Data Av	ailable			Sediment	Deposits		
<u> </u>	FIELD O	BSERVATI	ONS				Patterns in	Wetlands	
					Secon	darv Indica	ators (2 or n	nore Require	ed):
Depth of Surf	ace Water		none	(in)			•	nels in Uppe	•
							ained Leave		
Depth to Free	Water in F	⊃it	none	(in)		Local Soi	I Survey Da	nta	
					~	FAC-Neu	tral Test		
Depth to Sat	urated Soil		none	(in)	_	4	plain in Re	marks)	
Remarks: No		no OH\//M		(111)		<u>'</u>		•	
	, 2. 29)								

DATA FORM	Λ						
	POLITIA	IC WETI AI	ND DETER	MINATION			
			ds Delineations N				
SOILS	Ì			·			
Map Unit Name	e (Series and Pha	ase):		Drainage Class:			
Taxonomy (Sub	ogroup):		Field Observatio	ns Confirm Mapped T	ype?	☐ No	
		PRC	FILE DESCRIP	ΠΟΝ			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,		
14 in.	TION ZON	10YR 4/4	none	none	Sandy Loam	0.0.	
14 111.		10111 4/4	Horic	none	Candy Loan		
		HYDR	RIC SOIL INDICA	TORS			
	Histosol			Concretions			
	Histic Epipedon			High Organic Content in	andy Soils		
	Sulfidic Odor			Organic Streaking in	nic Streaking in Sandy Soils		
	Aquic Moisture re	egime		Listed on Local Hydri	ic Soils List		
	Reducing Condi	tions		Listed on National H	ydric Soils List		
	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)		
Remarks: No h	ydric soils.						
WETLAND (	DETERMINAT						
Hydrophytic Veg	etation Present?	<b>y</b> Yes	□ No				
Wetland Hydrolo		☐ Yes	<b>☑</b> No	ls this Sampling	Point Within a We	tland?	
Hydric Soils Pre		Yes	<b>☑</b> No	☐ Yes	<b>☑</b> No		
Remarks: This	area is at upgrad	lient end of Mule	efat, Willow Ripa	rian.			

### **Wetland Data Sheets from the** April 6, 2004 Survey

DATA FO	RM											
			\A/CT	' AND I								
		ROUTIN					ION					
		(1	1987 COE W	etiands Dei	ineations i	Manual)						
Project/Site:		Gregory Canyon L	_andfill				Date:	4/6/2	2004			
Applicant/Ov	vner:	<u> </u>					County:	San Diego				
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA				
The state of the s	Circumstand	ces exist on the site			<b>✓</b> Yes	☐ No	Communit	v ID:				
Is the site si	anificantly d	listurbed (Atypical S	Situation)?		Yes	✓ No	Transect II					
		roblem Area? (If nee		everse)	Yes	✓ No	Plot ID:	Waypoint 4	 a 4b			
		(						.				
VEGETA	TION											
	ninant Plant	t Species	Stratum	Indicator	Domi	nant Plant S	Species	Stratum	Indicator			
1	Bromus di	andrus	Н	NI	9	Bromus h	ordeaceus	Н	NI			
2	Eriogonum	n fasiculatum		NI	10							
3	Baccharis	salicifolia	Т	FACW	11							
4	Hirschfeldi	ia incana	Н	NI	12							
5	Cryptantha	a intermedia	Н	NI	13							
6	Centauriur	m muehlenbergii	Н	NI	14							
7	Heteromel	les arbutifolia	Н	NI	15							
8	Camissoni	ia bistorta	Н	NI	16							
		species that are O						e of mulefat Primrose.				
Remarks: Some	) vegetation tilic	oughout, no clear aqualic	; channei. Faiii	y old CA Ducki	wheat growing	) in channei. Lov	v percentage oi	muletat Primiio	ise.			
HYDROL	OGY											
						WETLA	ND HYDRO	LOGY INDI	CATORS			
	Recorded	Data (Descripe in	Remarks)		Prima	ry Indicators	S:					
		Stream, Lake, or	r Tide Gaug	je		Inundated						
		Aerial Photograp	hs			Saturated	in Upper 12	2 inches				
		Other				Water Ma	rks					
						Drift Lines						
	No Record	led Data Available	<b>;</b>			Sediment	Deposits					
	FIEL	LD OBSERVATIO	NS			Drainage I	Patterns in	Wetlands				
					Secor	ndary Indicat	tors (2 or m	ore Require	:d):			
Depth of S	urface Wat	er	none	(in)		Oxidized I	Root Chann	els in Uppe	r 12 inches			
						☐ Water-Sta	ined Leave:	s				
Depth to F	ree Water i	in Pit	none	(in)		Local Soil	Survey Dat	ta				
						FAC-Neut	ral Test					
Depth to S	Saturated S	oil	none	(in)		Other (Ex	plain in Rer	narks)				
Remarks: I	No hydrolog	gy - no OHWM.			<u> </u>	1						
	,											

DATA FORM	Л							
	POLITIN	IC WETLA	ND DETEI	RMINATION				
		987 COE Wetland						
SOILS								
Map Unit Name	e (Series and Pha	ase):		Drainage Class:				
Taxonomy (Sub	ogroup):		Field Observati	ons Confirm Mapped T	Гуре? ПYes	☐ No		
		PRC	FILE DESCRIF	PTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,	,		
4 in. (4a)		10YR 3/4			Sandy Loam			
6 in. (4b)		10YR 3/4	5YR 4/6	Rare/Medium	Loamy DCG			
	<u> </u>				<del> </del>			
		HYDR	RIC SOIL INDICA	ATORS				
	Histosol			Concretions				
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils		
	Sulfidic Odor			Organic Streaking in	rganic Streaking in Sandy Soils			
	Aquic Moisture re	egime		Listed on Local Hydr	ic Soils List			
	Reducing Condi	tions		Listed on National H	ydric Soils List			
	Gleyed or Low-C	hroma Colors		Other (Explain in Rer	marks)			
substance, very	• •	oncrete-like, ultra	•	sociated with well line could not be dug due	•	•		
	DETERMINAT	ION ☐ Yes	<b>☑</b> No	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
Wetland Hydrolo	etation Present?	☐ Yes			Point Within a We	atland?		
Hydric Soils Pre		☐ Yes			V No	zuariu :		
Remarks: No C			<b>☑</b> No		<u> </u>			

### **Wetland Data Sheets from the** April 6, 2004 Survey

DATA FO	PM								
		ROUTIN	JE WET	I AND	DETER	ΜΙΝΔΤΙ			<u> </u>
			1987 COE W				CIN		
Project/Site:		Gregory Canyon L	 _andfill				Date:	4/6/2	2004
Applicant/Ov							County:	San Diego	
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA	
		ces exist on the site			<b>✓</b> Yes	☐ No	Community	v ID:	
Is the site si	anificantly d	disturbed (Atypical S	Situation)?		Yes	✓ No	Transect II		
		Problem Area? (If nee		everse)	Yes	✓ No	Plot ID:	Waypoint 5	
	<u>.                                      </u>					<del> </del>		1 - 71	
VEGETA	TION								
	ninant Plan	t Species	Stratum	Indicator	Domin	nant Plant S	pecies	Stratum	Indicator
1	Quercus a	·	Т	NI	9				
2	Baccharis	salicifolia	Н	FACW	10				
3	Rhus dive	rsaloba	Т	NI	11				
4	Artemisia	californica	Н	NI	12				
5	Eriophyllui	m confertiflorum	Н	NI	13				
6	Claytonia <sub>l</sub>	parvaflora	Н	FAC	14				
7	Bromus di	iandrus	Н	NI	15				
8					16				
		Species that are O							
Kemarks. v	'egetation d	consistent through	10UI SWale.	CA sagest	OľUD; Oaks	OUISIDE SW	ale.		
HYDROL	OGY								
						WETLA	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Descripe in	Remarks)		Primar	⊥ y Indicators	3:		
_		Stream, Lake, or	-	е		Inundated	1		
		Aerial Photograp					in Upper 12	2 inches	
		Other				Water Mai			
						Drift Lines			
	No Record	ded Data Available	<b>)</b>			Sediment			
	FIE	LD OBSERVATIO	ONS				Patterns in	Wetlands	
					Secon			nore Require	;d):
Depth of S	Surface Wat	ter	none	(in)			•	nels in Uppe	
		+	Horre		<del>                                     </del>		ined Leaves		1 12
Depth to F	ree Water	in Pit	none	(in)	, – – –		Survey Dat		
		1		, ,		FAC-Neuti			
Denth to 5	Saturated S		none	(in)	<del>                                     </del>	4	plain in Ren	narks)	
			Hone	(111)					
Remains. 1	NO HYGIOIOS	gy - no OHWM.							



DATA FORM									
	DOI ITIN	IC WETLA	ND DETE	D	MINATION				
		987 COE Wetland							
SOILS					·····				
Map Unit Name	e (Series and Pha	ase):			Drainage Class:				
Taxonomy (Sub	ogroup):		Field Observations Confirm Mapped Type?						No
		PRC	FILE DESCRI	FILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	,	Mottle (Abundance/Contrast)	Tex	cture, Cond Structure,		
8 in.		10YR 4/4	none		none	Coarse	sand		
		HYDR	RIC SOIL INDIC	ΑT	TORS				
Histosol					Concretions				
	Histic Epipedon				High Organic Content in Surface Layer in S			andy S	oils
	Sulfidic Odor				Organic Streaking in	Sandy S	Soils		
	Aquic Moisture re	egime		⊒	Listed on Local Hydri	c Soils I	List		
	Reducing Condi	tions	[	⊒	Listed on National H	ydric Soi	ils List		
	Gleyed or Low-C	hroma Colors	[	⊒	Other (Explain in Ren	narks)			
Remarks: Hard	d bedrock layer in	mpeads digging.	Coarse sand	re	sulted from decomp	osing gi	ranite.		
				$\overline{}$					
WETLAND (	DETERMINAT	TON .		$\dashv$					
	etation Present?	☐ Yes	<b>☑</b> N	0					
Wetland Hydrolo	ogy Present?	☐ Yes	<b>☑</b> N	0	Is this Sampling	Point W	ithin a We	tland?	,
Hydric Soils Pre	sent?	Yes	<b>☑</b> N	0	☐ Yes		<b>☑</b> No		
Remarks: No C									

DATA FO	RM								
		ROUTIN	IE WET	LAND (	DETER	I MINATI	ION		
			987 COE W						
						<u> </u>			
Project/Site:		Gregory Canyon L	andfill				Date:	4/6/2	2004
Applicant/Ov	vner:						County:	San Diego	
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA	
Do Normal (	Circumstand	ces exist on the sit	e?		<b>✓</b> Yes	☐ No	Communit	y ID:	
Is the site si	gnificantly d	isturbed (Atypical S	Situation)?		Yes	<b>✓</b> No	Transect II		
		roblem Area? (If nee		everse)	Yes	✓ No	Plot ID:	Waypoint 6	
	r								
VEGETA	TION								
	ninant Plan	t Species	Stratum	Indicator	Domin	ant Plant S	Species	Stratum	Indicator
1	Adenoston	na fasciculatum	Н	NI	9		İ		
2	Cryptantha	a intermedia	Н	NI	10				
3	Eriogonum	n fasciculatum	Н	NI	11				
4	Claytonia p	parviflora	Н	NI	12				
5	Heteromel	es arbutifolia	Н	NI	13				
6	Melica imp	perfecta	Н	NI	14				
7	Xylococcu	s bicolor	Н	NI	15				
8					16				
Percent of [	Dominant S	pecies that are C	BL, FACW	, or FAC (e	excluding F	AC): 0%			
Remarks:									
HYDROL	OGY								
						WETLA	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Descripe in	Remarks)		Primar	y Indicators	3:		
		Stream, Lake, or		je		Inundated			
		Aerial Photograp	hs			Saturated	in Upper 12	2 inches	
		Other				Water Ma	rks		
						Drift Lines			
	No Record	led Data Available	÷			Sediment	Deposits		
	FIEL	LD OBSERVATIO	NS			Drainage I	Patterns in	Wetlands	
					Second	darv Indicat	tors (2 or m	ore Require	d):
Depth of S	urface Wat	er	none	(in)			-	els in Uppe	-
					1 -		ined Leaves		
Depth to F	ree Water i	in Pit	none	(in)			Survey Dat		
,				, ,		FAC-Neut			
Donth to S	Caturated C	a:I	2020	(in)		1	plain in Ren	narks)	
-	Saturated S		none	(in)			piairi iir r toi	nanc)	
Remarks. 3	SHOIL alea V	with cut, erosion i	ill with upla	mu vegetati	1011 - 110 OH	IVVIVI.			

DATA FORM	Λ							
	ROUTIN	IE WETI A	ND DETER	MINATION				
			ds Delineations N					
SOILS								
Map Unit Name	e (Series and Pha	ase):		Drainage Class:				
Taxonomy (Sub	ogroup):		Field Observatio	ns Confirm Mapped T	ype?	☐ Yes		No
		PRC	FILE DESCRIP	ΠON				
Depth	l laviman	Matrix Color	Mottle Colors	Mottle (A bundance (Contract)		ture, Cond		,
(inches)	Horizon	(Munsell Moist)	(Munsell Moist)	(Abundance/Contrast)		Structure,	etc.	
		HYDR	IL RIC SOIL INDICA	TORS				
	Histosol		П	Concretions				
	Histic Epipedon			High Organic Content in	Surface I	andv S	oils	
	Sulfidic Odor		П	Organic Streaking in				
	Aquic Moisture re	egime		Listed on Local Hydri				
	Reducing Condi			Listed on National Hy				
	Gleyed or Low-C			Other (Explain in Ren				
Demarks: Soil	pit not excavated		ration point for w					
MATE AND		10N						
	<b>DETERMINAT</b> etation Present?	Yes	▼ No					
Wetland Hydrolo		☐ Yes	▼ No	Is this Sampling	Point Wi	thin a We	tland?	<b>)</b>
Hydric Soils Pre	••	☐ Yes	₩ No	Is this Sampling Point Within a Wetland?  ☐ Yes				
Remarks:								

DATA FO	PRM									
	<u> </u>	ROUTIN	JE WET	I AND I	DETER	ΜΙΝΔΤΙ	ION .	!		
ROUTINE WETLAND DETERMINATION  (1987 COE Wetlands Delineations Manual)										
							<u> </u>	<u> </u>		
Project/Site:		Gregory Canyon L	andfill				Date: 4/6/2004			
Applicant/Ov	vner:						County:	San Diego		
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA		
Do Normal (	Circumstand	ces exist on the site	e?		<b>✓</b> Yes	☐ No	Communit	y ID:		
Is the site si	gnificantly d	isturbed (Atypical S	Situation)?		Yes	<b>☑</b> No	Transect II			
	•	roblem Area? (If nee	eded, explain on reverse)		Yes	<b>V</b> No	Plot ID:	Waypoint 6	and 7	
VEGETA	TION									
Don	ninant Plan	t Species	Stratum	Indicator	Dominant Plant S		Species	Stratum	Indicator	
1	Quercus a	grifolia	Т	NI	9					
2	Rhus diver	rsiloba	Т	NI	10					
3	Rhamnus	illicifolia	Н	NI	11					
4	Bromus ru	bens	Н	NI	12					
5					13					
6					14					
7					15					
8					16					
		pecies that are O								
Remarks.	Remarks: Wypt 7: Sim conditions, just upstream with BroDia, MuhRig, RhuDiv, QueAgr, RhuTri, HazSqu. No channel.									
HYDROL	OGY									
						WETLA	ND HYDRO	LOGY INDI	CATORS	
	Recorded	Data (Descripe in	Remarks)		Primar	Primary Indicators:				
		Stream, Lake, or				Inundated				
	Aerial Photograp					Saturated	Saturated in Upper 12			
		Other				Water Ma				
						Drift Lines	T			
	No Record	led Data Available	•			Sediment				
	FIEL	LD OBSERVATIO	ONS	<u>I</u>		☐ Drainage Patterns in Wetlands				
					Second	Secondary Indicators (2 or more Required)			d):	
Depth of S	urface Wat	er	none	(in)				els in Uppe		
						☐ Water-Stained Leaves			·	
Depth to F	Depth to Free Water in Pit			(in)			Survey Dat			
			none	, ,		FAC-Neut				
Depth to Saturated Soil			none	(in)		Other (Explain in Remarks)				
Remarks: None - no OHWM.										

DATA FORM	1								
	ROUTIN	JF WFTΙ Δ	ND DETER	PMINATION					
ROUTINE WETLAND DETERMINATION  (1987 COE Wetlands Delineations Manual)									
SOILS									
Map Unit Name	(Series and Ph	ase):		Drainage Class:					
Taxonomy (Sub	ogroup):		Field Observation	ns Confirm Mapped T	ype?	☐ No			
		PRC	FILE DESCRIP	FILE DESCRIPTION					
Depth (inches)			Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,	,			
1 in.	Horizon (Munsell Moist) (Munsell Moist) (Abundance/Contrast) Structure  10YR 5/4-4/4 10 YR 4/4 none Coarse sand				eic.				
1 111.		1011 3/4-4/4	10 11 4/4	none	Coarse sand				
	!	HYDR	I RIC SOIL INDICA	I TORS					
	Histosol			Concretions					
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils			
	Sulfidic Odor			Organic Streaking in					
	Aquic Moisture r	egime		Listed on Local Hydric Soils List					
	Reducing Condi	tions		Listed on National H					
	Gleyed or Low-C	Chroma Colors		Other (Explain in Ren					
Remarks: Soil	it not excavated	l, second observ	ation point for w	aypoint 6.					
			·	•					
	1			1					
WETLAND (	_ Determinat	ION							
Hydrophytic Vegetation Present? Yes			<b>☑</b> No						
Wetland Hydrology Present?			<b>☑</b> No	Is this Sampling Point Within a Wetland?					
Hydric Soils Present?			<b>☑</b> No	☐ Yes 🔽 No					
Remarks:									

DATA FO	)RM								
		ROLITIN	JE WET	I AND I	DETER	MINATI	ION		<u> </u>
ROUTINE WETLAND DETERMINATION  (1987 COE Wetlands Delineations Manual)									
							T		
Project/Site:		Gregory Canyon L	 ∟andfill				Date:	4/6/2	2004
Applicant/Ov						County:		San Diego	
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA	
		ces exist on the site			<b>✓</b> Yes	☐ No	Communit	-	
		listurbed (Atypical S			Yes	✓ No			
		Problem Area? (If nee		uton):		✓ No	Plot ID:	Waypoint 8	1
10 410 4.11.		100101111111111111111111111111111111111	Jueu, explain on .	:Vei 30)			I IOCID.	VVayponic	
VEGETA	TION					1			
	ninant Plan	t Species	Stratum	Indicator	Dominant Plant S		pecies	Stratum	Indicator
1	Rhus diver		Т	NI			s caucalis		
2	Bromus di	andrus	Н	NI	10				
3	Vitis califo	omica	Н	FACW	11				
4	Carduus p	ycnocephalus		NI	12				
5	Adiantum	jordani		NI	13			<u> </u>	
6	Polypody o	californica		NI	14				
7	Rhus frilob	oata		NI	15				
8	Claytonia p	parviflora		FAC	16				
		Species that are O		, or FAC (e	excluding F	AC): <5%			
Remarks: \$	Steep, rock	ky drainage. No C	OWHM.						
HYDROL	OGY								
, <del>, , , _</del> , , _						WETLA	ND HYDRO	LOGY INDI	CATORS
$\vdash$	Recorded	Data (Descripe in	Remarks)		Primar	Primary Indicators:			
	Stream, Lake, o					Inundated	,. 		
	一片	Aerial Photograp			┝	Saturated in Upper 1		2 inches	
		Other				Water Ma		Linorico	
		Ottion				Drift Lines	1		
$\vdash$	No Record	ded Data Available	3		<del>                                     </del>				
		LD OBSERVATIO			┼───	Sediment Deposits  Drainage Patterns in Wetlands			
FIELD OBSERVATIONS				Secondary Indicators (2 or more Required):					
Depth of S	Surface Wat	ter	none	(in)	Second			iore Require iels in Uppe	-
1	1	<del> </del>	none	•	┼─┼				
Denth to F	ree Water	in Dit	none	(in)	<del>                                     </del>	Water-Stained Leaves Local Soil Survey Data			
Depth to Free Water in Pit			none	(111)	<u> </u>	FAC-Neut		la	
					<del>├</del>	4	plain in Rer	norke)	
Depth to Saturated Soil none			(in)		Other (EX	piaiii iii Rei	ilaiks)		
Remarks: N	lo wetland l	hydrology; no OH	WM.						

# **APPENDIX**C

DATA FORM	<b>1</b>								
	ROUTIN	L JF WFTΙ ΔΙ	ND DETE	RMINATION					
		987 COE Wetland							
SOILS									
Map Unit Name	e (Series and Pha	ase):		Drainage Class:	Time?   Yes				
Taxonomy (Sub	ogroup):		Field Observati	☐ No					
			OFILE DESCRI						
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast	Texture, Con Structure	,			
, ,		,			Decomposed gi	ranite, very			
8 in.		10YR 4/3		none	coarse sand pa	rticles.			
	1								
	1			+					
				+					
				+	+				
				+					
		<u>l</u> HYDF	I RIC SOIL INDIC	 ATORS					
<del>                                     </del>	Histosol		Г Г	Concretions					
	Histic Epipedon			High Organic Content i	in Surface Laver in S	andy Soils			
	Sulfidic Odor			Organic Streaking in		alluy oons			
	Aquic Moisture re	eaime		Listed on Local Hyd					
	Reducing Condi	-		Listed on National F					
	Gleyed or Low-C			Other (Explain in Re	-				
Pemarks: Soil	pit not excavated		etion point for						
			•	•					
VA/CT! AND I		FIONI							
	DETERMINAT letation Present?		. No						
Wetland Hydrolo		☐ Yes	V No		 α Point Within a W	etland?			
Hydric Soils Pre		☐ Yes	✓ No		Is this Sampling Point Within a Wetland?  ☐ Yes				
Remarks:			<u></u>	<u>'                                    </u>					

DATA FO	DRM								
		POLITIA	IC WET	I AND I	PETEI		TION		
		ROUTIN					IION		
			987 COE W	ยเลเนร บะเ	Meauons	Wanuar			
Project/Site:		Gregory Canyon I	_andfill				Date:	4/6/2004	
Applicant/Ov	vner:						County:	San Diego	
Investigator:		Bill Magdych, Jim	Rocks, Elle	n Howard			State:	CA	
Do Normal (	Circumstand	ces exist on the sit	e?		<b>✓</b> Yes	☐ No	Communit	ty ID:	
Is the site si	gnificantly d	isturbed (Atypical S	Situation)?		Yes	<b>☑</b> No	Transect I	D:	
Is the area a	potential P	roblem Area? (If nee	eded, explain on re	verse)	Yes	<b>₩</b> No	Plot ID:	Waypoint 1	2
VEGETA	TION								
Don	ninant Plan	t Species	Stratum	Indicator	Dom	inant Plar	nt Species	Stratum	Indicator
1	Claytonia <sub>l</sub>			NI	9				
2	Mimulus a			NI	10				
3	Bromus ru			NI	11				
4	Rhamnus			NI	12				
5	Centaurea	melitensis		NI	13				
6					14				
7					15				
8					16				
Remarks:		pecies that are C	BL, FACW	, or FAC (e	excluding	FAC):			
remaiks.	000 011 310	pes							
HYDROL	OGY								
						WET	LAND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Descripe in	Remarks)		Prima	ary Indica			
	П	Stream, Lake, or		le	Г	Inundat	1		
		Aerial Photograp			<u>-</u> Г	_	ted in Upper 1	2 inches	
		Other				Water			
	_					_ Drift Lir			
	No Record	led Data Available	;				ent Deposits		
	FIEL	D OBSERVATIO	ONS				ge Patterns in	Wetlands	
	Secondary Indicators (2 or more Required):								
Depth of S	urface Wat	er	none	(in)			ed Root Chanr		
						☐ Water-	Stained Leave	S	
Depth to F	ree Water	in Pit	none	(in)	[	Local S	Soil Survey Da	ta	
						FAC-N	eutral Test		
Depth to S	Saturated S	oil	none	(in)		Other (	Explain in Rer	marks)	
		hydrology; no OH	WM.	` '	1				
		5 53,							

# **APPENDIX**C

DATA FORM	<b>V</b>							
	ROLITIN	JE WETI A	ND DETER	RMINATION				
			ds Delineations M					
SOILS				,				
Map Unit Name	e (Series and Ph	ase):		Drainage Class:				
Taxonomy (Sub	ogroup):		Field Observatio	ns Confirm Mapped T	ype?	Yes		No
		PRO	OFILE DESCRIP	TION				
Depth (inches)	Horizon	Matrix Color	Mottle Colors	Mottle		,	cretions	,
(inches) 12 in.	HOUSOU	(Munsell Moist) 10YR 3/3		(Munsell Moist)     (Abundance/Contrast)     Structure,       none     Coarse sand with				nine
12 111.		101 K 3/3	none	none	Organic la			
5 in.		10YR 2/2	none	none	decompos	-		
					<u> </u>			
					<u> </u>			
		HYDF	RIC SOIL INDICA	TORS				
	Histosol			Concretions				
	Histic Epipedon			High Organic Content in	Surface Lay	er in S	andy So	oils
	Sulfidic Odor			Organic Streaking in	Sandy Soils	S		
	Aquic Moisture r	egime		Listed on Local Hydr	ic Soils List	t		
	Reducing Condi	tions		Listed on National H	ydric Soils I	_ist		
	Gleyed or Low-C	hroma Colors		Other (Explain in Rer	narks)			
Remarks: Soil	pit not excavated	l, second observ		aypoint 6.				
			·					
WETLAND (	DETERMINAT	TON						
Hydrophytic Veg	etation Present?	☐ Yes	<b>☑</b> No		<u>;</u>			
Wetland Hydrology Present? ☐ Yes ☑ No Is this Sampling Point Within a Wetla				etland?	,			
Hydric Soils Pre	sent?	□ Yes	<b>☑</b> No	☐ Yes	~	No No		
Remarks: Eros	ion rill, no OHWI	M. Discontinuoเ	us rill. This pit ex	xcavated in localized	hole.			

DATA F	ORM									
		ם אסו		A A I	ט טבי			TION		
		KUUI	TINE WI					HION		
			(1987 CO	E Wetlands	Delineat	ion	is Manuai)			
Project/Site	):	Gregory Ca	nyon Landfi	II				Date:	4/8/2	2004
Applicant/C	)wner:							County:	San Diego	
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Ho	ward			State:	CA	
Do Normal	Circumstar	nces exist or	the site?		<b>✓</b> Yes		☐ No	Communit	y ID:	
Is the site s	ignificantly	disturbed (A	typical Situa	tion)?	Yes		<b>☑</b> No	Transect II	D:	
Is the area	a potential F	Problem Are	a? (If needed, e	xplain on reverse)	Yes		<b>☑</b> No	Plot ID:	Waypoint 1	
					inorgani	ic,	coarse sar	nd		
VEGETA	ATION									
Domin	ant Plant S	pecies	Stratum	Indicator	Dor	nin	ant Plant S	Species	Stratum	Indicator
1	Sali	ix lasolepis	Т	FACW	9					
2	Populu	s fremontii	Т	FACW	10					
3	Bacchris	s salicifolia	S	FACW	11					
4	S	alix exigua	S	OBL	12					
5	Ambrosia p	silostachya	Н	FAC	13					
6	Sali	x goodingii	Т	OBL	14					
7					15					
3 16										
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC): T=70%; S=30%:										
Remarks:	Understo	ry mostly d	ense leaf li	tter, very sp	oarse <i>An</i>	nbr	rosia psilos	tachya		
HYDROI	LOGY									
							WETLA	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Desci	ripe in Rem	larks)	Prim	nar	y Indicators			
	П	· · ·	ake, or Tide			 	Inundated			
		Aerial Pho			,	<u>_</u>		in Upper 12	inches	
		Other				一	Water Ma			
						一	Drift Lines			
	No Record	led Data Av	ailable			_	Sediment			
		OBSERVA		<u> </u>				Patterns in	Wetlands	
Secondary Indicators (2 or more Required):										
Depth of	Surface Wa	ater	none	(in)				-	els in Uppe	
								ined Leaves		
Depth to	Free Water	in Pit		, (in)			Local Soil	Survey Dat	ta	
	11 FAC-Neutral Test									
Depth to	Depth to Saturated Soil 11 (in) Other (Explain in Remarks)									
Remarks:				. , ,						



DATA FORM	1							
	ROUTIN	JE WETI AI	ND DETER	MINATION				
			ds Delineations N					
SOILS								
Map Unit Name	(Series and Pha	ase):		Drainage Class:				
Taxonomy (Sub	group):		Field Observatio	ns Confirm Mapped T	ype?	☐ No		
		PRO	FILE DESCRIP	ΠΟΝ				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Conc Structure,	·		
1		10 YR 2/2			Coarse sands	101 1 Ale -		
1 to 11		10 YR 2/2			organic seams vinorganic sands			
1 to 11		10 YR 7/2			inorganic, coars	e sand		
	1	HYDR	RIC SOIL INDICA	TORS				
	Histosol			Concretions				
	Histic Epipedon			High Organic Content in Surface Layer in Sandy				
	Sulfidic Odor			Organic Streaking in	Sandy Soils			
~	Aquic Moisture re	egime		Listed on Local Hydri	c Soils List			
✓	Reducing Condi	tions		Listed on National Hy	ydric Soils List			
	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)			
Remarks: Fai moisture regime		organic matter in	the coarse sand	ds. Soil indicators no	ot strong, but aqu	iic		
WETI AND [	     DETERMINAT							
Hydrophytic Vege		V Yes	□ No					
Wetland Hydrolo		✓ Yes	□ No	Is this Sampling	Point Within a We	tland?		
Hydric Soils Present?			□ No					
Remarks:								

DATA F	ORM										
		POLIT		TTI ANI	_ [			TION			
		KUUI	FINE WE					IION			
			(1987 CO	E Wetlands	Dei	lineation	s Manuai)				
Project/Site	:	Gregory Ca	nyon Landfi	II				Date:	4/8/2	2004	
Applicant/O	wner:							County:	San Diego		
Investigator	:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	varc	d		State:	CA		
Do Normal	Circumstar	nces exist on	the site?		~	Yes	☐ No	Community	y ID:		
Is the site s	ignificantly	disturbed (At	typical Situa	tion)?		Yes	<b>☑</b> No	Transect II	D:		
		Problem Area				Yes	<b>☑</b> No	Plot ID:	Waypoint 2		
VEGETA	<b>NTION</b>										
	ant Plant S	pecies	Stratum	Indicator		Domin	ant Plant S	pecies	Stratum	Indicator	
1	Baccharis	s salicifolia	Т	FACW	9						
2	S	Salix exigua	S	OBL	10						
3	Populu	ıs fremontii	Т	FACW	11						
4	Hirschfe	ldia incana	Н	NI	12						
5	В	Bare ground		NI	13						
6	Melilo	otus indica	Н	NI	14						
7					15						
8	B   16   16   Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC): T=65%; S=5%; H=0%										
										ጋ%	
Remains.	IIIIS PIL IS	10 feet sout	(N OI VV I F I	Z. IL 15 a s	siigi	ni siep i	up III elevai	IOH HOH VV	YP1 2.		
HYDROL	.OGY										
							WETLA	ND HYDRO	LOGY INDI	CATORS	
	Recorded	Data (Descr	ripe in Rem	arks)		Primary	y Indicators	s:			
		Stream, La	ake, or Tide	Gauge			Inundated				
		Aerial Phot	tographs				Saturated	in Upper 12	2 inches		
		Other					Water Ma	rks			
							Drift Lines				
	No Record	led Data Ava	ailable				Sediment	Deposits			
	FIELD	OBSERVA	TIONS					Patterns in	Wetlands		
				(i.e)		Second		•	ore Require	-	
Depth of	Surface Wa	iter	none	(in)			Oxidized F	Root Chann	els in Uppe	r 12 inches	
							Water-Sta	ined Leaves	3		
Depth to Free Water in Pit 15 (in)						Local Soil	Survey Dat	a			
15 (11)					FAC-Neut	ral Test					
Depth to Saturated Soil 15 in. Other (Explain					olain in Ren	narks)					
	is iii L										

#### **Wetland Data Sheets from the** April 8, 2004 Survey

DATA FORM	1								
	ROUTIN	L JE WETLA	ND DETER	RMINATION					
			ds Delineations N						
SOILS									
Map Unit Name	e (Series and Pha	ase):		Drainage Class:					
Taxonomy (Sub	ogroup):		Field Observatio	ns Confirm Mapped T	ype? Type? Yes		No		
		PRC	FILE DESCRIPT	ΠΟΝ					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,				
0-12/14 in		10 YR 5/3							
12-16 in range		10 YR 2/2			seam of oxidize	d sand	1		
HYDRIC SOIL INDICATORS									
Histosol				Concretions					
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy So	oils		
	Sulfidic Odor			Organic Streaking in	Sandy Soils				
	Aquic Moisture re	egime		Listed on Local Hydri	ic Soils List				
	Reducing Condi	tions		Listed on National Hy	ydric Soils List				
	Gleyed or Low-C	hroma Colors		Other (Explain in Rem	narks)				
Remarks: The			ne the root/water	level interface where		aturatio	n		
occurs.									
MACTI AND (		FIOAI							
	DETERMINAT etation Present?	Ves Yes	□ No						
		☐ Yes	□ No		Point Within a We	tland?			
Wetland Hydrology Present?			V No	☐ Yes	✓ No	,uarra .			
_			boundary is near		<b>V</b> 1				

DATA F	ORM									
		ROUT	TINE WE	FTLAN	D DETE	FRMIN⊅	TION			
				E Wetlands						
Project/Site	): :	Gregory Ca	anyon Landfi	.11			Date:	4/8/2	2004	
Applicant/C	)wner:						County:	San Diego		
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA		
Do Normal	Circumstar	nces exist on	1 the site?		<b>✓</b> Yes	☐ No	Communit	y ID:		
Is the site s	significantly	disturbed (A	typical Situa	ition)?	Yes	<b>☑</b> No	Transect ID:			
		Problem Are			Yes	<b>☑</b> No	Plot ID:	Waypoint 3		
VEGETA	ATION									
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator	
1	Sali	ix goodingii	Т	OBL	9					
2	S	Salix exigua	Т	OBL	10					
3	Tamarix rai	mosissima	Т	FAC	11					
4	Baccharis	s salicifolia	S	FACW	12					
5			<u> </u>	L	13					
6			<u> </u>	<u> </u>	14					
7			<u> </u>	<u> </u>	15					
8	16									
	Dominant S	Species tha	it are OBL,	FACW, or	FAC (exclu	ıding FAC):	T= 60%;	S=10%		
Remarks:										
HYDROI		-								
HIDKO	<u>-UG1</u>				1	VA/ETI AI	חם חייו מיי	. COV INDI	OATOBS	
		= : /5						LOGY INDI	CATURS	
Ш	Recorded	Data (Desci	•		Primary	y Indicators	<b>5</b> :			
			ake, or Tide	Gauge		Inundated				
		Aerial Phot	tographs		1		in Upper 12	2 inches		
	Ш	Other			t	Water Mai				
<u> </u>	No Dogorá	Ind Date Av	- table		ᆜ	Drift Lines				
		ded Data Ava			<u> </u>	Sediment	· ·			
	FIELD	OBSERVA	TIONS		Ш	Drainage F	Patterns in	Wetlands		
Donth of	Surface Wa	dor		(in)	1		-	ore Require		
рерит от	Surface vva	itei	none	("")	1			els in Uppe	r 12 inches	
Parth to Frank May 1 8"							ined Leaves			
Depth to Free Water in Pit (in)					<u> </u>		Survey Dat	ia		
FAC-Neutral Test										
Depth to	Saturated S	Soil		11 (in)		Other (Exp	plain in Ren	narks)		
Remarks:										

### **Wetland Data Sheets from the** April 8, 2004 Survey

DATA FORM	1								
	POLITIN	JE WETLA	ND DETER	MINATION					
			ds Delineations N						
SOILS				·					
Map Unit Name	(Series and Ph	ase):		Drainage Class:					
Taxonomy (Sub	group):		Field Observatio	ns Confirm Mapped T	ype? Yes	☐ No			
		PRC	FILE DESCRIP	ΓΙΟΝ					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Concretions, trast) Structure, etc.				
0-11		10 YR 2/2			coarse sand, si	lt, organics			
6			10 YR 4/6	RARE-LOW	coarse sand, si	lt, organics			
11+		10 YR 5/1			Coarse sand				
HYDRIC SOIL INDICATORS									
	Histosol Concretions								
	Histic Epipedon			High Organic Content in	Surface Layer in Sa	andy Soils			
	Sulfidic Odor			Organic Streaking in	Sandy Soils				
~	Aquic Moisture r	egime							
~	Reducing Condi	tions		Listed on National Hy	ydric Soils List				
~	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)				
Remarks:									
	ı	ı	ı						
WETLAND [	DETERMINAT	TON .							
Hydrophytic Veg		<b>y</b> Yes	□ No						
Wetland Hydrolo	gy Present?	<b>∠</b> Yes	□ No	Is this Sampling	Point Within a We	etland?			
Hydric Soils Present? ✓ Yes			☐ No	<b>✓</b> Yes	☐ No				
		•	this spot is in a deground water level.	pression. Distin	ct				

DATA F	ORM										
	<u> </u>	ROUT	LINE W	L ETLANI	n DETE	- -RMINA	TION				
				E Wetlands			111011				
Project/Site	<b>)</b> :	Gregory Ca	nyon Landfi	ıII			Date:	4/8/2	2004		
Applicant/C	)wner:						County:	San Diego			
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA			
Do Normal	Circumstar	nces exist on	the site?		<b>✓</b> Yes	☐ No	Communit	y ID:			
Is the site s	ignificantly	disturbed (A	typical Situa	ition)?	Yes	<b>☑</b> No	Transect II	D:			
		Problem Are			Yes	<b>☑</b> No	Plot ID:	waypoint 4			
VEGET/	ATION										
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator		
1	S	Salix exigua	Т	OBL	9						
2	Chaenactis	glabriuscula	Н	NI	10						
3	Fa	aligo gallica	Н	NI	11						
4	Brom	nus rubens	Н	NI	12						
5	Hirchfe	ldia incana	Н	NI	13				<u> </u>		
6	Erodium	cicutarium	Н	NI	14				<u> </u>		
7				L	15				<u> </u>		
8	8   16   16   Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC): T=5%										
	Dominant S Mostly bar	-	ıt are OBL,	FACW, or	FAC (exclu	uding FAC):	T=5%				
Tomane.	Woodly Sa.	o ground									
HYDROL	LOGY										
						WETLA	ND HYDRO	LOGY INDI	CATORS		
	Recorded	Data (Desci	ripe in Rem	ıarks)	Primar	y Indicators	 S:				
		· ·	ake, or Tide			Inundated					
		Aerial Phot				Saturated	in Upper 12	2 inches			
		Other				Water Ma					
						Drift Lines					
	No Record	ded Data Ava	ailable			Sediment	Deposits				
	FIELD	OBSERVA	TIONS	-			Patterns in	Wetlands			
					Second	dary Indicat	tors (2 or m	nore Require	d):		
Depth of	Surface Wa	ater	none	(in)	1		-	nels in Uppe	-		
						Water-Sta	ined Leaves	s			
Depth to Free Water in Pit (in)						Local Soil	Survey Dat	ta			
			none			FAC-Neut	ral Test				
Depth to	Depth to Saturated Soil none (in) Other (Explain in Remarks)										
Remarks:	Remarks:										

DATA FORM	1								
	POLITIN	JE WETLA	ND DETER	MINATION					
			ds Delineations N						
SOILS				·					
Map Unit Name	(Series and Ph	ase):		Drainage Class:					
Taxonomy (Sub	ogroup):		Field Observatio	☐ No					
		PRC	FILE DESCRIP						
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,				
14		10 YR 6/2			Medium sand				
HYDRIC SOIL INDICATORS									
	Histosol			Concretions					
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils			
	Sulfidic Odor			Organic Streaking in	Sandy Soils				
	Aquic Moisture r	egime		Listed on Local Hydr	ic Soils List				
	Reducing Condi	tions		Listed on National H	ydric Soils List				
	Gleyed or Low-C	Chroma Colors		Other (Explain in Rer	narks)				
Remarks:									
141571 4415 6		-1011							
	<b>DETERMINAT</b> etation Present?	ION ☐ Yes	<b>№</b> No						
		Ш			Point Within a W/	atland?			
Wetland Hydrology Present?			▼ No	Is this Sampling Point Within a Wetland?  ☐ Yes					
			✓ No rrace, at a higher	elevation than the p					

DATA F	ORM										
		POLIT	TINE WE	ETI ANI	ا <sup>ل</sup>	<b>NETE</b>		4 INI A	TION		
		KUUI		E I LAINI E Wetlands					IION		
			(1967 00)	E Wellands	Dei	IIIEauon	S IVIG	Iluaij			
Project/Site	e:	Gregory Ca	nyon Landfi	II					Date:	4/8/2	2004
Applicant/C	)wner:								County:	San Diego	
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	vard	t			State:	CA	
Do Normal	Circumstar	nces exist on	the site?		<b>v</b>	Yes	1	No	Community	y ID:	
Is the site s	significantly	disturbed (A	typical Situa	ition)?		Yes	<b>V</b>	No	Transect II	D:	
		Problem Are				Yes	<b>V</b>	No	Plot ID:	Waypoint 8	
VEGETA	ATION										
	ant Plant S	pecies	Stratum	Indicator	L	Domin	ant F	Plant S	pecies	Stratum	Indicator
1	Salix	x lasiolepis	Т	FACW	9						
2		Salix exigua	S	OBL	10						
3	Bacchris	s salicifolia	S	FACW	11						
4	Populu	ıs fremontii	Т	FACW	12						
5	Sali	ix goodingii	Т	OBL	13						
6					14						
7					15						
8					16						
		Species tha								S=10%	
Remarks.	Dense icai	f litter exists	3 III (IIE unu	ersiory, wit	)H Tr	0 Herbai	Cious	; COver			
HYDROI	LOGY										
							W	ETLAN	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Desci	ripe in Rem	arks)		Primary	y Indi	icators	;:		
		Stream, La	ake, or Tide	Gauge			Inun	dated			
		Aerial Phot	tographs			<b>~</b>	Satı	urated	in Upper 12	2 inches	
		Other					Wat	ter Mar	ks		
							Drift	Lines			
	No Record	ded Data Ava	ailable				Sed	iment	Deposits		
	FIELD	OBSERVA	TIONS	•					Patterns in	Wetlands	
						Second	dary	Indicat	ors (2 or m	ore Require	:d):
Depth of	Surface Wa	ater	none	(in)			Oxio	dized F	Root Chann	els in Uppe	r 12 inches
□ Water-						er-Sta	ined Leaves	3			
Depth to Free Water in Pit (in) Loc					Loca	al Soil	Survey Dat	:a			
				TT			FAC	C-Neutr	ral Test		
Depth to	Saturated S	Soil		11 (in)			Othe	er (Exp	olain in Ren	narks)	
Remarks:	emarks:										
	S. Marko.										

DATA FORM	1								
	POLITIN	IE WETL A	ND DETER	MINATION					
			ds Delineations N						
SOILS									
Map Unit Name	(Series and Pha	ase):		Drainage Class:					
Taxonomy (Sub	group):		Field Observatio	Field Observations Confirm Mapped Type?					
		PRC	FILE DESCRIP	TION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,				
1 to 2		10 YR 2/1				Silty Clay			
2 to 10		10 YR 6/1	7.5 YR 5/6	Medium high/medium	Co	oarse sand			
	_	HYDR	RIC SOIL INDICA	TORS					
	Histosol			Concretions					
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils			
	Sulfidic Odor			Organic Streaking in	Sandy Soils				
~	Aquic Moisture re	egime		Listed on Local Hydri	c Soils List				
~	Reducing Condi	tions		Listed on National H	ydric Soils List				
~	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)				
Remarks:									
WETI AND I	 Determinat	ION							
Hydrophytic Veg		✓ Yes	□ No						
Wetland Hydrolo	gy Present?	✓ Yes	□ No	ls this Sampling	Point Within a We	tland?			
Hydric Soils Present? ✓ Yes			□ No	<b>✓</b> Yes	□ No				
Remarks:									

DATA F	ORM								
		ROUT	TINE W	FTI.AN	D DETE	FRM INA	TION		
				E Wetlands					
Project/Site	<b>;</b> :	Gregory Ca	nyon Landfi	II			Date:	4/6/2004	
Applicant/C	)wner:						County:	San Diego	
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA	
Do Normal	Circumstar	nces exist on	the site?		<b>✓</b> Yes	☐ No	Community	y ID:	
Is the site s	ignificantly	disturbed (At	typical Situa	ition)?	Yes	<b>☑</b> No	Transect ID:		
		Problem Area			Yes	<b>☑</b> No	Plot ID:	Waypoint 9	
VEGETA	ATION								
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator
1	Bacchris	s salicifolia	S	FACW	9				
2	Salix	x lasiolepis	Т	FACW	10				
3	Sali	ix goodingii	Т	OBL	11				
4	Populu	ıs fremontii	Т	FACW	12				
5					13				
6					14				
7			<u> </u>	<u> </u>	15				
8			<u> </u>		16				
	Dominant S	Species tha	ıt are OBL,	FACW, or	FAC (exclu	ıding FAC):	S=20%		
Remarks:									
HYDROI	OGY								
						WETLAN	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Descr	ripe in Rem	ıarks)	Primar	y Indicators	 3:		
		· · ·	ake, or Tide			Inundated			
		Aerial Phot				Saturated	in Upper 12	2 inches	
		Other				Water Mai			
Remarks:		halfway bety	ween wayp	oint 8 and 9	)	Drift Lines			
	No Record	ded Data Ava	ailable			Sediment	Deposits		
	FIELD	OBSERVA	TIONS	-			Patterns in	Wetlands	
					Second	dary Indicat	ors (2 or m	ore Require	:d):
Depth of	Surface Wa	ter	none	(in)	1		-	els in Uppe	
						Water-Sta	ined Leaves	3	
Depth to Free Water in Pit (in)					Local Soil	Survey Dat	ta		
18						FAC-Neuti	ral Test		
Depth to	Depth to Saturated Soil 18 (in) Other (Explain in Remarks)								
Remarks:				( ,					



DATA FORM							
	ROLITIN	IE WETI AI	ND DETER	MINATION			
			ds Delineations N				
SOILS	,			,			
Map Unit Name	(Series and Pha	ase):		Drainage Class:			
Taxonomy (Sub	group):		Field Observatio	ns Confirm Mapped T	ype? Type? Yes	☐ No	
		PRC	FILE DESCRIP	ΠΟΝ			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Conc Structure,		
0-18		10 YR 6/2			Coarse sand		
18+		10 YR 6/1			Coarse sand		
	I	HYDR	RIC SOIL INDICA	TORS			
	Histosol			Concretions			
	Histic Epipedon			High Organic Content in	Surface Layer in Sa	andy Soils	
	Sulfidic Odor			Organic Streaking in		,	
	Aquic Moisture re	eaime		Listed on Local Hydri			
	Reducing Condi			Listed on National Hy			
	Gleyed or Low-C			Other (Explain in Ren			
			esulting in low c		,		
WETLAND F	    DETERMINAT						
Hydrophytic Vege		V Yes	□ No				
Wetland Hydrolo		☐ Yes	✓ No	ls this Sampling	Point Within a We	tland?	
-	Hydric Soils Present?			☐ Yes  No			
-	pit is halfway be		8 and 9.				

DATA F	ORM								
		POLIT	LINE WE	ETI ANI	O DETE		TION		
		KUUI		E I LAINI E Wetlands			HON		
			(1967 00)	E Wellanus	Delilleauon	S Wallual)			
Project/Site	):	Gregory Ca	nyon Landfi				Date:	4/8/2004	
Applicant/C		- 0 ,					County:	San Diego	
Investigato		Bill Magdyc	h, Jim Rock	s. Ellen Hov	ward		State:	CA	
		nces exist on			<b>✓</b> Yes	☐ No	Community	v ID:	
		disturbed (At		ition)?	Yes	✓ No	Transect II		
		Problem Area			Yes	✓ No	Plot ID:	Waypoint 10	5
								7.	
VEGETA	ATION								
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator
1	Hirchfe	ldia incana	Н	NI	9				
2	Hypochaer	ris glabrata	Н	NI	10				
3					11				
4			ļ!	ļ!	12				
5			<u> </u>	<u> </u>	13				
6			<u> </u>	<u> </u>	14				
7			<b> </b>	<b> </b>	15				
8		2 ' 41	. ODI	= A O A / - = =	16	" FAO			
		Species tha e ground exi		FACVV, or	FAC (exclu	iding FAC):			
Remains.	MUSHY Dais	y ground exi	1515						
			1						
	201								
HYDROL	<u>-OGY</u>								
								LOGY INDI	CATORS
	Recorded	Data (Descr	•		Primary	y Indicators	<b>;</b> :		
			ake, or Tide	Gauge		Inundated			
		Aerial Phot	tographs		<u> </u>		in Upper 12	2 inches	
	Ш	Other			<u> </u>	Water Mai	T		
<u> </u>	11 D	: 15-t- A	71 1.1 -			Drift Lines			
		led Data Ava				Sediment	•		
	FIELD	OBSERVA	TIONS	1	Ш		Patterns in		
Donth of	C::rfcaa \//	-1		(in)	Second			ore Require	
рерит от	Surface Wa	itei	none	("')				els in Uppe	r 12 inches
	= \	,			<u> </u>		ined Leaves		
Depth to Free Water in Pit			(in)			Survey Dat	ia		
none					FAC-Neuti				
Depth to	Saturated S	Soil	none	(in)		Other (Exp	plain in Ren	narks)	
Remarks:									
									ı



DATA FORM	1						
	ROUTIN	L JF WETLAI	ND DETI	ER	MINATION		
		987 COE Wetland					
SOILS							
Map Unit Name	e (Series and Pha	ase):			Drainage Class:		
Taxonomy (Sub	ogroup):		Field Observ	atio	ns Confirm Mapped T	ype? Yes	☐ No
	1	PRO	FILE DESCF	RIPT		ı	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Mois		Mottle (Abundance/Contrast)	Texture, Conc Structure,	
(11.51.55)	1.0	(11011001111111111111111111111111111111	(1716.1.0 4	,	(/ \dailac	Medium sand, g	
0-18		10 YR 6/2				small cobbles	
				_			
				_			
	1			_			
	1			_			<u> </u>
				$\dashv$			
		HVDD			TODO		
	Τ	HYDK	RIC SOIL INDI				
	Histosol			=	Concretions		
	Histic Epipedon				High Organic Content in		andy Soils
	Sulfidic Odor			=	Organic Streaking in		
<u> </u>	Aquic Moisture re	_		=	Listed on Local Hydri		
	Reducing Condi			=	Listed on National Hy		
	Gleyed or Low-C	hroma Colors			Other (Explain in Ren	narks)	
Remarks:							
WETI AND [	 Determinat			-			
	etation Present?	Yes	~	No			
Wetland Hydrolo		☐ Yes		No	Is this Sampling	Point Within a We	tland?
Hydric Soils Pres	sent?	Yes		No	☐ Yes	<b>☑</b> No	
Remarks:							

DATA F	ORM								
		ROUT	TINE WE	FTI.AN	D DETE	FRMIN⊅	TION		
				E Wetlands					
Project/Site	): :	Gregory Ca	anyon Landfi	II			Date:	4/8/2004	
Applicant/C	)wner:						County:	San Diego	
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA	
Do Normal	Circumstar	nces exist on	1 the site?		<b>✓</b> Yes	☐ No	Communit	y ID:	
Is the site s	significantly	disturbed (A	typical Situa	ation)?	Yes	<b>☑</b> No	Transect ID:		
		Problem Are			Yes	<b>☑</b> No	Plot ID: Waypoint 11		1
VEGETA	ATION								
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator
1	S	Salix exigua	Т	OBL	9				
2	Sali	ix laevigata	Т	FACW	10				
3	Bacchris	s salicifolia	Т	FACW	11				
4	Populus	s freimontii	Т	FACW	12				
5	Sali	ix goodingii	Т	OBL	13				
6			<u> </u>	<u> </u>	14				
7			<u> </u>	ļ'	15				
8			<u> </u>	<u> </u>	16				
	Dominant S	Species tha	it are OBL,	FACW, or	FAC (exclu	ıding FAC):	T=100%		
Remarks:									
							T		
HYDROI	LOGY								
						WETLAN	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Desci	ripe in Rem	ıarks)	Primar	y Indicators	 3:		
			ake, or Tide	-		Inundated			
		Aerial Phot				Saturated	in Upper 12	2 inches	
		Other				Water Mai			
						Drift Lines			
	No Record	ded Data Ava	ailable			Sediment	Deposits		
	FIELD	OBSERVA	TIONS	-		Drainage F	Patterns in	Wetlands	
				(:-)	Second	dary Indicat	ors (2 or m	ore Require	:d):
Depth of	Surface Wa	ater	none	(in)		Oxidized F	Root Chann	els in Uppe	r 12 inches
					Water-Sta	ined Leaves	3		
Depth to Free Water in Pit							Survey Dat	ta	
				12.5	_	FAC-Neuti	ral Test		
Depth to	Depth to Saturated Soil 12.5 (in) Other (Explain in Remarks)								
Remarks:	Probably	has seasor	nal hydrolog	ЭУ	1				

DATA FORM	Λ					
	POLITIN	IE WETLA	ND DETER	RMINATION		
			ds Delineations N			
SOILS						
Map Unit Name	e (Series and Pha	ase):		Drainage Class:		
Taxonomy (Sub	ogroup):		Field Observatio	ns Confirm Mapped T	ype?	☐ No
		PRC	FILE DESCRIP	ΠΟΝ		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Conc Structure,	
0-11		10 YR 6/2		RARE/LOW	Coarse sand	
11+		10 YR 6/2		RARE/LOW	Coarse sand	
		HYDR	RIC SOIL INDICA	TORS		
	Histosol			Concretions		
	Histic Epipedon			High Organic Content in	Surface Layer in Sa	andy Soils
	Sulfidic Odor		✓	Organic Streaking in	Sandy Soils	
~	Aquic Moisture re	egime		Listed on Local Hydri	ic Soils List	
~	Reducing Condi	tions		Listed on National Hy	ydric Soils List	
>	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)	
Remarks: The	rare mottling obs	served could not	accuretly be as	signed a Munsell col	or.	
יאירדו אאום נ		rioù i				
	DETERMINAT etation Present?	V Yes	□ No			
Wetland Hydrolo			☐ No		Point Within a We	stland?
		Vac	☐ No	✓ Yes	□ No	illaria :
Hydric Soils Present?  Remarks: In a high flow channel; likely meets			_			
	J. T.	,	·			

DATA F	ORM								
		ROUT	TINE W	FTI.AN	D DETE	FRM INA	TION		
				E Wetlands					
Project/Site	):	Gregory Ca	nyon Landfi	II			Date:	4/8/2	2004
Applicant/O	)wner:						County:	San Diego	
Investigator	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA	
Do Normal	Circumstar	nces exist on	the site?		<b>✓</b> Yes	☐ No	Communit	y ID:	
Is the site s	significantly	disturbed (A	typical Situa	ıtion)?	Yes	<b>☑</b> No	Transect II		
Is the area	a potential f	Problem Are	a? (If needed, explain on reverse)		Yes	▼ No Plot ID: Waypoint **		Waypoint 18	 8
VEGETA	ATION								
Domin	ant Plant S	pecies	Stratum	Indicator	Domin	ant Plant S	pecies	Stratum	Indicator
	\rtemisia d	ouglasiana	Н	FAC	9				
2		s salicifolia	Т	FACW	10				
3	Populu	ıs fremontii	Т	FACW	11				
4	Salix	x lasiolepis	Т	FACW	12				
5	Sals	sola tragus	Н	NI	13				
6			<u> </u>		14				
7			<u> </u>	<u> </u>	15				
8			<u> </u>		16				
		Species tha							
		l erosion of t and upland			ieit trieis ai	ea peronoa	Well above	the present	I HVCI WILLI
HYDROL	<u>LOGY</u>								
						WETLAN	ND HYDRO	LOGY INDI	CATORS
	Recorded	Data (Desci	ripe in Rem	arks)	Primar	y Indicators	3:		
		Stream, La	ake, or Tide	Gauge		Inundated			
		Aerial Phot	tographs			Saturated	in Upper 12	2 inches	
		Other				Water Mai	rks		
						Drift Lines			
	No Record	ded Data Ava	ailable			Sediment	Deposits		
	FIELD	OBSERVA	TIONS			Drainage F	Patterns in	Wetlands	
					Second	dary Indicat	ors (2 or m	ore Require	:d):
Depth of	Surface Wa	ater	none	(in)		Oxidized F	Root Chann	els in Uppe	r 12 inches
						Water-Sta	ined Leaves	3	
Depth to	Free Water	r in Pit		(in)		Local Soil	Survey Dat	a	
			none		🗆	FAC-Neuti	ral Test		
Depth to	Saturated S	Soil	none	(in)		Other (Exp	plain in Ren	narks)	
Remarks:					<u></u>				



DATA FORM	1						
	POLITIA	IE WETL AL	ND DETER	RMINATION			
		987 COE Wetland					
SOILS							
Map Unit Name	(Series and Pha	ase):		Drainage Class:			
Taxonomy (Sub	group):		Field Observation	☐ No			
		PRC	FILE DESCRIP	TION			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,		
0-10		10 YR 5/2			fine sand		
10		10 YR 4/3			fine sand		
		HYDR	RIC SOIL INDICA	TORS			
	Histosol			Concretions			
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils	
	Sulfidic Odor			Organic Streaking in	Sandy Soils		
	Aquic Moisture re	egime		Listed on Local Hydri	ic Soils List		
	Reducing Condi	tions		Listed on National H	ydric Soils List		
	Gleyed or Low-C	hroma Colors		Other (Explain in Rer	narks)		
Remarks: Laye	er present at 10 i	nches					
WETI AND F	SETEDMINIAT	IONI					
Hydrophytic Vege	DETERMINAT etation Present?	V Yes	□ No				
Wetland Hydrolo		☐ Yes	✓ No		Point Within a We	etland?	
Hydric Soils Present?			☑ No	Yes No			
-		d terrace relative		no hydrology is pres			

DATA F	ORM									
		ROUT	TINE W	FTI AN	D DETE	FRMIN∆	TION		<u> </u>	
				E Wetlands			111011			
Project/Site	): :	Gregory Ca	nyon Landfi	II			Date:	4/8/2	2004	
Applicant/C	)wner:						County:	San Diego		
Investigato	r:	Bill Magdyc	h, Jim Rock	s, Ellen Hov	ward		State:	CA		
Do Normal	Circumstar	nces exist on	n the site?		<b>✓</b> Yes	☐ No	Communit	y ID:		
Is the site s	significantly	disturbed (At	typical Situa	ition)?	Yes	<b>☑</b> No	Transect II	Transect ID:		
Is the area	a potential [	Problem Area	a? (If needed, e	xplain on reverse)	Yes	<b>☑</b> No	Plot ID:	waypoint 27	7	
VEGETA	ATION				<u> </u>					
-	ant Plant S		Stratum	Indicator		ant Plant S	pecies	Stratum	Indicator	
1		Salix exigua	Т	OBL	9					
2		s salicifolia	S	FACW	10					
3	Populu	ıs fremontii	Т	FACW	11					
4				<u> </u>	12					
5					13					
6			<u> </u>	<u> </u>	14			<u> </u>		
7			<u> </u>		15			<u> </u>		
8		41	. 201	7:014/	16	" <b>540</b> \	<b>— 700</b> /			
		Species tha unt of bare g		FACW, or	FAC (exciu	Iding FAC):	I= 70%			
Kemana.	Filgii amou	IIII Oi Daie A	Jiouria							
			1							
	201									
HYDROI	<u>_OGY</u>				1					
						WETLA	ND HYDRO	LOGY INDI	CATORS	
	Recorded	Data (Descr	•		Primar	y Indicators	3:			
			ake, or Tide	Gauge		Inundated				
		Aerial Phot	tographs				in Upper 12	2 inches		
		Other				Water Mai	1			
					ᆜ	Drift Lines				
<u> Ц</u>		ded Data Ava			<u> </u>	Sediment	•			
	FIELD	OBSERVA	TIONS			Drainage F	Patterns in	Wetlands		
5 45 4	2 ( )			(in)	1		-	ore Require	-	
Depth or	Surface Wa	iter	none	(in)	-			els in Uppe	r 12 inches	
							ined Leaves			
Depth to Free Water in Pit							Survey Dat	ta		
			none			FAC-Neuti				
Depth to	Saturated S	Soil	plain in Ren	narks)						
Remarks:					1					

DATA FORM	1					
	POLITIN	L JE WETI Δ'	ND DETER	RMINATION		
		987 COE Wetland				
SOILS						
Map Unit Name	e (Series and Pha	ase):		Drainage Class:		
Taxonomy (Sub	ogroup):		Field Observation	ons Confirm Mapped T	ype?	☐ No
		PRC	OFILE DESCRIP	TION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle (Abundance/Contrast)	Texture, Cond Structure,	,
0-18		10 YR 6/2			coarse sand	
		HYDR	RIC SOIL INDICA	TORS		
	Histosol			Concretions		
	Histic Epipedon			High Organic Content in	Surface Layer in S	andy Soils
	Sulfidic Odor			Organic Streaking in	Sandy Soils	
	Aquic Moisture re	egime		Listed on Local Hydri	ic Soils List	
	Reducing Condi	tions		Listed on National Hy	ydric Soils List	
	Gleyed or Low-C	hroma Colors		Other (Explain in Ren	narks)	
Remarks:						
-	DETERMINAT petation Present?		□ No	1		
Wetland Hydrolo		✓ Yes	<u> </u>		Point Within a We	tland?
Hydric Soils Pre		☐ Yes			✓ No	:llariu :
	tland edge is 20ft		<b>☑</b> No		<b>V</b> 140	